

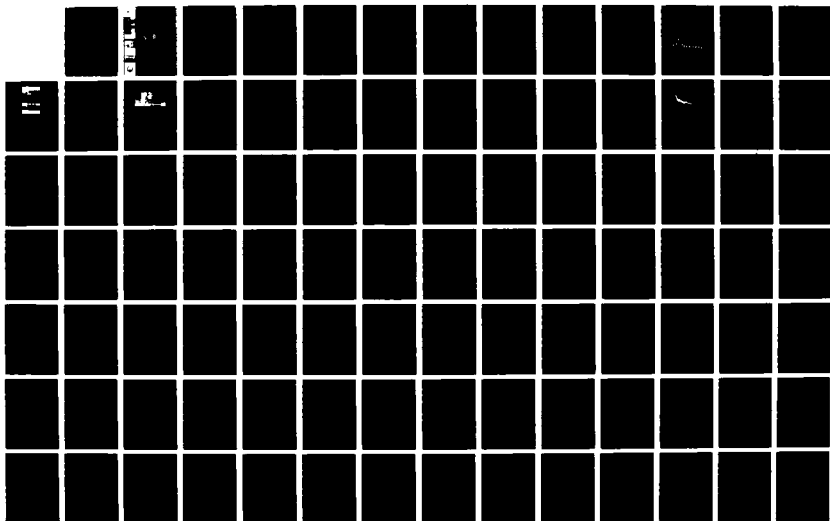
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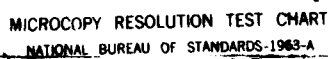
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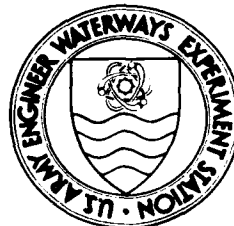
by

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<p>This report presents 4 years of highly accurate, approximately biweekly surveys of four selected beach profiles collected at the US Army Engineer Waterways Experiment Station, Coastal Engineering Research Center's Field Research Facility (FRF) in Duck, NC. These data are unique because they cover the most active region of the nearshore, from the dune out to a depth where net bottom changes appear to be negligible, and were collected coincident with detailed measurements of waves and water levels.</p> <p>The data were collected between 1981 and 1984 using the FRF's CRAB, a 10-m-tall motorized tripod, which, combined with an electronic "total station" surveying instrument, is capable of accuracies of a few centimetres in both elevation and position.</p> <p style="text-align: right;">(Continued)</p>					
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19. ABSTRACT (Continued).

The report discusses the data-collection methods, the sources of errors and data-editing procedures, and a brief summary of the actual profile data. Appendices contain the listings and plots of the survey data along with the tables and plots of the wave and water-level data. *Keywords: Beach profile; Ocean waves; Water level.*

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PREFACE

This report was prepared at the Coastal Engineering Research Center (CERC) of the US Army Engineer Waterways Experiment Station (WES) as part of the Storm Erosion Studies Work Unit, Shore Protection and Restoration Program; Coastal Engineering Area, Civil Works Research and Development. Technical Monitors were Mr. John H. Lockhart, Jr., and Mr. John G. Housley, Headquarters, US Army Corps of Engineers.

Mr. Peter A. Howd and Mr. William A. Birkemeier of CERC's Field Research Facility Group prepared the report under the supervision of Mr. Curt Mason, former Chief, Field Research Facility; Mr. Thomas W. Richardson, Chief, Engineering Development Division; and Mr. Charles C. Calhoun, Jr., and Dr. James R. Houston, Assistant Chief and Chief, CERC, respectively. Messrs. Eugene W. Bichner, Charles R. Townsend III, Michael W. Leffler, Francis E. Sargent, and Ms. Rebecca J. Savage, plus many others, contributed to the collection of the data. Ms. Harriet M. Klein assisted greatly by untangling complexities of the English language. The wave and water-level data presented in the report were collected by CERC's Field Research Facility Measurements and Analysis Work Unit under the direction of Mr. Herman C. Miller. This report was edited by Ms. Jamie Leach of the WES Information Technology Laboratory.

Commander and Director of WES upon publication of this report was COL Dwayne G. Lee. Technical Director was Dr. Robert W. Whalin.



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BEACH AND NEARSHORE SURVEY DATA: 1981-1984

CERC FIELD RESEARCH FACILITY

PART I: INTRODUCTION

1. The Field Research Facility (FRF) of the US Army Engineer Waterways Experiment Station (WES), Coastal Engineering Research Center (CERC), was established to provide a research and development capability for field studies of coastal processes. An important part of the FRF operation has been the collection of long-term data sets of waves, currents, tides, atmospheric conditions, and beach profile change. The purpose of this report is to present the first 4 years of highly accurate profile data collected under the Storm Erosion Studies work unit.

2. This continuing data set is unique in the field of beach profile studies because of its accuracy, temporal coverage, and concomitant wave, weather, and water-level information. Surveys of four shore-normal profile lines were completed at approximately 2-week intervals. Nowhere else does such a data set exist. It provides a unique opportunity to examine natural profile changes and to test and evaluate models of beach profile response to changing wave, current, and atmospheric conditions.

3. The FRF is located just north of the village of Duck, N. C., on the Outer Banks (Figure 1). The facility includes a 561-m-long research pier and support buildings. The beach adjacent to the study area is interrupted only by open pile piers from Cape Henry, Va., to Oregon Inlet, N. C., a distance of 110 km. General information regarding the FRF and the surrounding area is provided in Birkemeier et al. (1985). A comprehensive network of weather and ocean sensors provides continuous monitoring of atmospheric and oceanographic conditions. These data are published in a series of annual (Miller 1984; Miller et al. 1985, 1986) and monthly data reports.

4. The data in this report were collected along the four profile lines shown in Figure 2 (Lines 58, 62, 188, and 190). A profile line is defined as a fixed transect across the beach and nearshore which is repetitively surveyed. Table 1 summarizes the location of these lines and the data contained in this report. Based on regular monthly surveys of the bathymetry

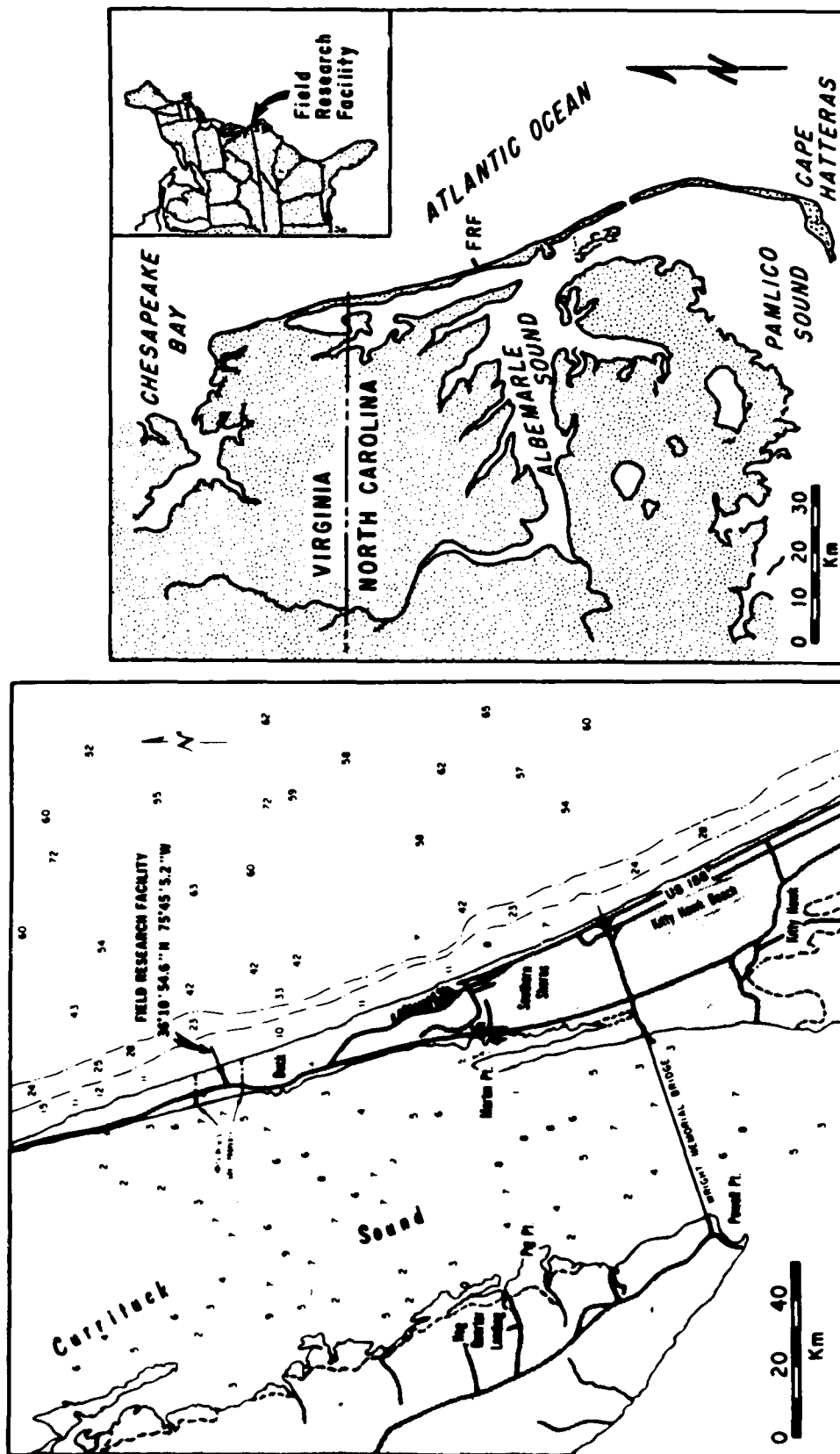


Figure 1. Location of the FRF

Table 1
Summary of Profile Line Data

Profile Line	Distance Along FRF Baseline m	Distance From FRF Pier m	First Survey	Last Survey	Number of Surveys
58	1097.31	580.64	17 Jul 81	13 Dec 84	96
62	1005.84	489.21	26 Jan 81	13 Dec 84	119
188	0.00	-516.63	20 Jan 81	17 Dec 84	127
190	-91.40	-608.07	17 Jul 81	17 Dec 84	99

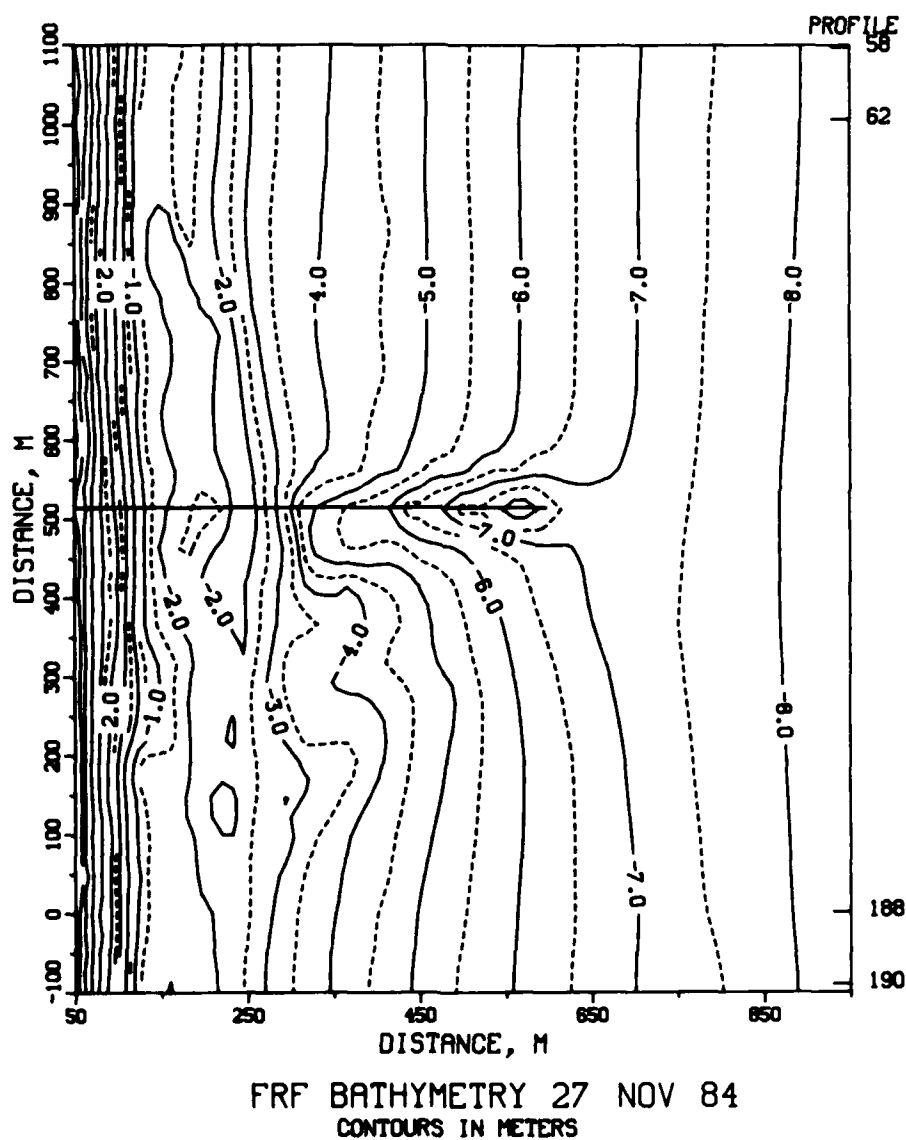


Figure 2. Bathymetric map of the study area showing locations of the four profile lines

surrounding the FRF, these lines are located in a region of shore-parallel contours and are sufficiently removed from known pier effects (Miller, Birkemeier, and DeWall 1983).

5. The beach is composed of a mixture of quartz sand and carbonate shell debris. The carbonate component may be as high as 20 percent. Mean grain size is greatest on the foreshore where it approaches 1 mm, decreasing offshore to 0.1 mm. Sorting improves in an offshore direction. Figure 3 illustrates the cross-shore variation in sediment size distribution based on a series of samples taken along profile line 188 on 17 March 1982.

6. Storm conditions at the FRF are dominated by extratropical northeasters during the winter months and occasionally by tropical hurricanes. During the period of study, a number of significant storms occurred, although no major hurricanes passed the area.

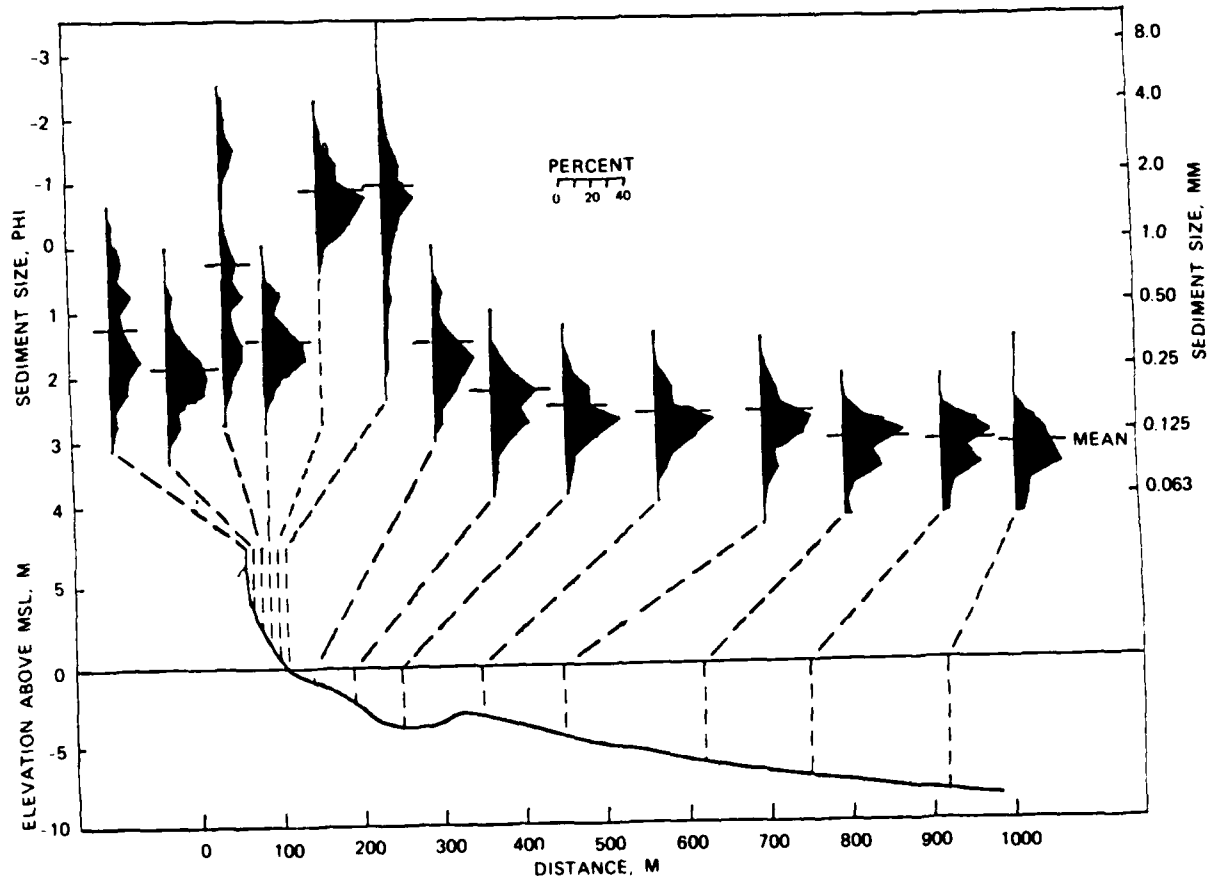


Figure 3. Distribution of sediment sizes across profile line 188 on 17 March 1981

7. The report includes five parts and six appendices. Part II discusses the survey methods used to collect the profile data and points out the sources of errors and methods used to minimize those errors. Part III presents summary comments about profile characteristics and patterns of profile change as an aid in interpreting the data. Part IV presents the associated wave and water-level data. The report is summarized in Part V. Appendices include plots of all the profiles (Appendix A), tables of the profile data along with a FORTRAN computer program to read and check the data (Appendices B and C), plots of wave height for the 4-year period (Appendix D), tables of wave height and period (Appendix E), and plots of the observed tides (Appendix F).

PART II: PROFILE DATA

8. This part describes the methods used to survey the profile data and identifies potential sources of error and how errors were handled. The data for each profile line are a series of distance-elevation pairs measured during a repetitive number of surveys. The data extend from a shore-parallel baseline, located landward of the duneline, out to a usual depth of 8 to 9 m. Elevation data are referenced to the 1929 National Geodetic Vertical Datum (NGVD) using third-order control established at the FRF. Each survey of each profile line is uniquely identified by a profile number and survey number.

9. Surveys were initially conducted biweekly, the northern lines one week followed by the southern lines the next. This sequence changed in December 1982 to biweekly surveys of all four lines. Full bathymetric surveys of 15 to 28 lines surrounding the FRF were also conducted monthly. Additional surveys were added to cover significant storms and in support of special experiments. The time interval between surveys varied from 1 to 44 days.

The CRAB

10. The method used to collect the majority of the profile data is described in Birkemeier and Mason (1984). All profiles were surveyed using the FRF Coastal Research Amphibious Buggy (CRAB) shown in Figure 4. Built by the Wilmington District of the US Army Corps of Engineers, this unique three-wheeled vehicle was modeled after a vehicle originally built by Marine Travelift & Engineering of Sturgeon Bay to monitor a Corps of Engineers beach nourishment project.

11. The CRAB consists of a tripod of 20.3-cm schedule-80 aluminum tubing, connected at the base by horizontal members 2.1 m above the ground, and an operations platform 10.7 m above the ground. Power is supplied by a 39.5-kW Volkswagen engine on the deck which drives a variable stroke hydraulic pump. This pump transfers hydraulic fluid at $5.5 \times 10^6 \text{ N/m}^2$ or higher to hydraulic motors at each of the wheels. The variable stroke feature of the pump allows an infinitely variable gear ratio in either forward or reverse and constant engine speed. For strength and corrosion resistance, all hydraulic lines are stainless steel except for short flexible sections at the front steering wheel.

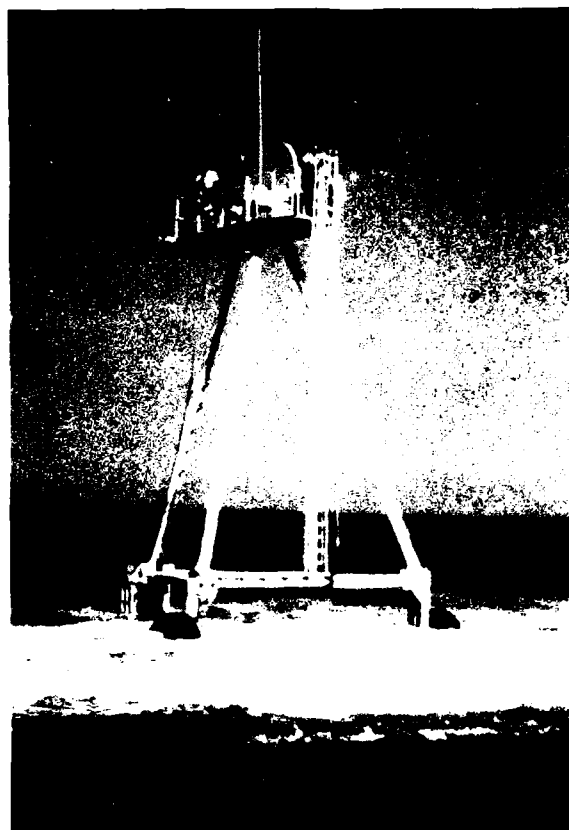


Figure 4. The CRAB

12. Total vehicle weight is about 8,200 kg; the distance between the rear wheels is 8.2 m. Though it appears top heavy, the liquid-filled tires and wide wheelbase make it very stable. It has passed a 20-deg tilt test and is designed to withstand even steeper angles.

13. Top speed of the CRAB is 3.2 km/hr on land and somewhat less in the water. Since the maximum significant wave height for operation is 2 m, the CRAB is capable of operating in all but the most severe east coast storms. The large tires have a negligible effect on a hard rippled sand bottom; however, scour around the tires has been observed in areas of active wave breaking or strong currents if the CRAB remains motionless. The CRAB cannot be used on soft silty or loose bottoms.

14. All beach and dune surveying was accomplished with the standard

technique of sending a rodperson along the transect, stopping at regular intervals and breaks in slope.

Early Stadia Surveys

15. From January to June 1981, the position and elevation of the CRAB were determined using an automatic level, located on the beach, to read a 12.3-m-high stadia board attached to the CRAB. This system was slow and sensitive to a wide range of errors. Primary sources of error included out-of-level or poorly aligned instruments, stadia reading errors, fieldbook and transcription errors, and instrument stationing errors. Estimated accuracy in distance was from ± 0.3 to ± 6 m. Vertical accuracy was estimated to vary from ± 0.03 to ± 0.6 m. Single points or surveys may have been in greater error.

16. Errors tended to increase with distance. This resulted from the increased difficulty in reading the stadia board and the greater impact of out-of-level errors. Because of these errors, data collected prior to June 1981 end approximately 600 m offshore. Points farther offshore were of questionable accuracy and have been dropped.

17. Although of inferior quality to later surveys, the stadia survey data have been retained in the data set because the configuration of the profile lines (which is accurately represented) during this period is unusual and not later repeated.

Electronic Survey System

18. In order to improve the speed and accuracy of the surveys, a Zeiss Elta-2 electronic surveying instrument with automatic data recording was used after June 1981 (Figure 5). This instrument incorporates in one compact unit a first-order electronic theodolite, distance meter, microprocessor, rechargeable power supply, and interchangeable solid state memory module. When optically aimed at a reflecting prism on the CRAB, the instrument uses a collimated infrared beam to measure the distance and the electronic theodolite to measure both horizontal and vertical angles. The microprocessor then uses these measurements plus the coordinates of the instrument to compute X, Y, and Z Cartesian coordinates of the ground point under the CRAB (corrected for

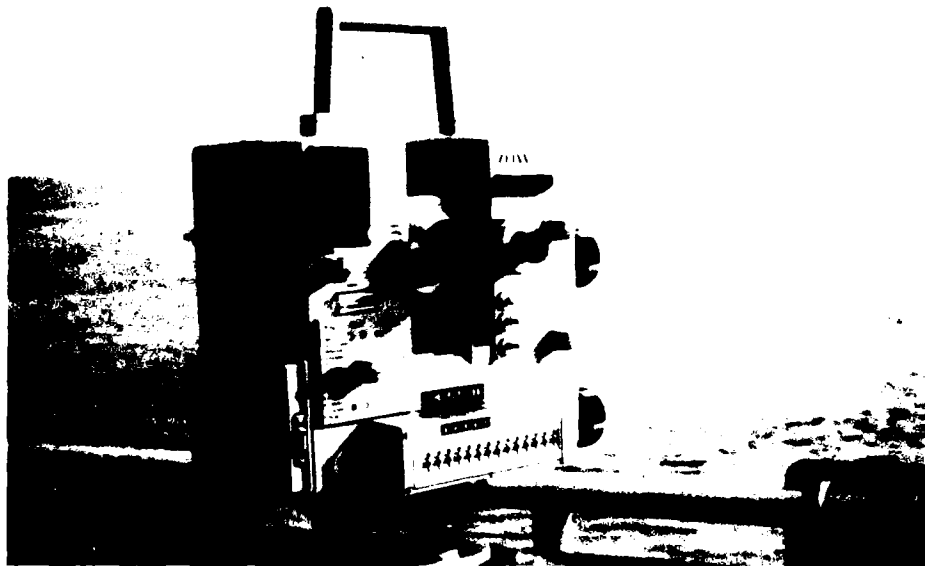


Figure 5. Zeiss Elta-2 electronic surveying instrument

earth curvature).

19. The stated operating range is 2 km with a triple prism assembly as used on the CRAB. Working accuracy of ± 3 cm or better is possible in both horizontal and vertical coordinates. Actual accuracy in a repetitive survey program is less because of changing atmospheric conditions, different instrument setups, and differences in the actual points surveyed.

20. The high accuracy of the system is shown in Figure 6 (Birkemeier and Mason 1984), which shows 10 repetitive surveys of a profile line collected over a 2-day period under near ideal conditions. While there is movement of the nearshore bar during the period shown, the stability of the offshore zone is of greater interest. Seaward of 220 m, the average range in elevation was 5 cm. The standard deviation of the 10 elevations for a given distance was usually less than 2 cm.

21. Only about 10 sec are required to aim, shoot, and record each survey point. Because the actual coordinates of each point are displayed, the CRAB can easily be kept on line to within ± 1.5 m through radio communications between the CRAB driver and the instrument operator.

22. Once the survey is complete, the solid state memory is removed from the Zeiss, and the data are transferred through a Zeiss interface to a main-frame, desktop, or minicomputer. Because the system only requires proper aim from the operator, instrument reading errors and fieldbook entry errors are eliminated.

23. A unique feature of the Zeiss system is its ability to accept and record an additional piece of information (up to seven digits) with every survey point. This was used to manually enter the angular tilt of the CRAB, which was measured with two orthogonal tilt meters. Up to 14 deg of tilt was recorded on steep portions of the beach. The survey data were adjusted during processing to account for the tilt.

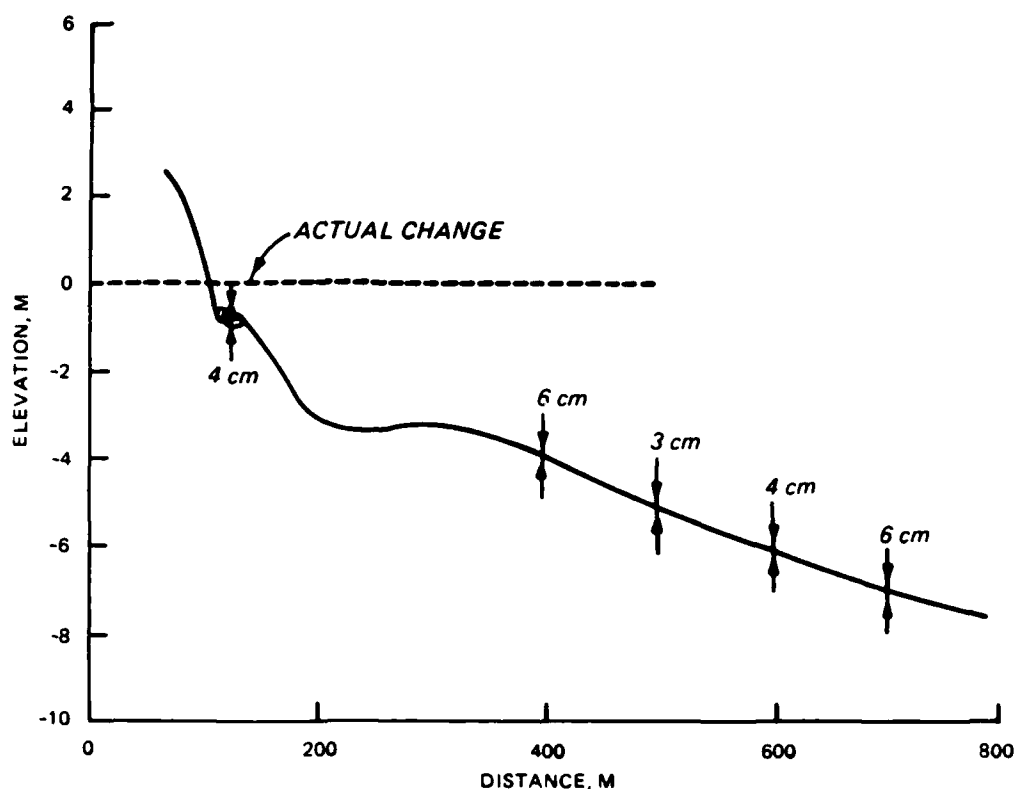


Figure 6. Results of 10 repetitive surveys of a single profile line using the CRAB/Zeiss system

Error Minimization in Profile Data-Collection Methods

Error types

24. The biases and errors of the CRAB-Zeiss method can be broken down into two distinct categories: limitations of the instrument and operator errors.

25. The Zeiss Elta-2 is capable of measuring both horizontal and vertical angles to ± 0.6 sec of arc and distances to ± 1 cm in the mode most commonly used at the FRF. The specified range when using a triple prism configuration is 2 km. Increasing the number of prisms increases the range.

26. The instrument is sensitive to atmospheric and climatic variation since it uses the speed of light to determine distance and optical aiming to measure the angles. The instrument does allow for rough adjustment for these variables. During the summer months, heat shimmer and temperature gradients near the land-sea interface may also affect the accuracy of the angular measurements. These errors are assumed to be negligible relative to other types of errors.

27. On one occasion the Elta-2 developed an internal problem which introduced a gradual bias into the data. This bias was identified and removed during processing. Errors of this type are difficult to remove because they occur radially from the instrument's position and do not uniformly affect the data. The instrument was repaired, and the malfunction did not reoccur. Treatment of errors in the data is discussed below.

28. Operator errors can result from improper leveling of the instrument, an error in positioning the instrument in coordinate space (particularly in elevation), movement of the tripod during the survey, and mis-aiming the instrument at the proper location on the prism cluster while taking the measurement. Constructed examples of typical nearshore survey errors and their impact are shown in Figure 7. All the measured points are affected by improper leveling or improper location in coordinate space. Individual points are affected by incorrect aim.

29. A different type of operator error results when topographically important points, such as the bar crest or trough, are missed. Survey points are selected based on the timed travel of the CRAB. More points are taken close to shore where the profile is more complex. It is possible for the

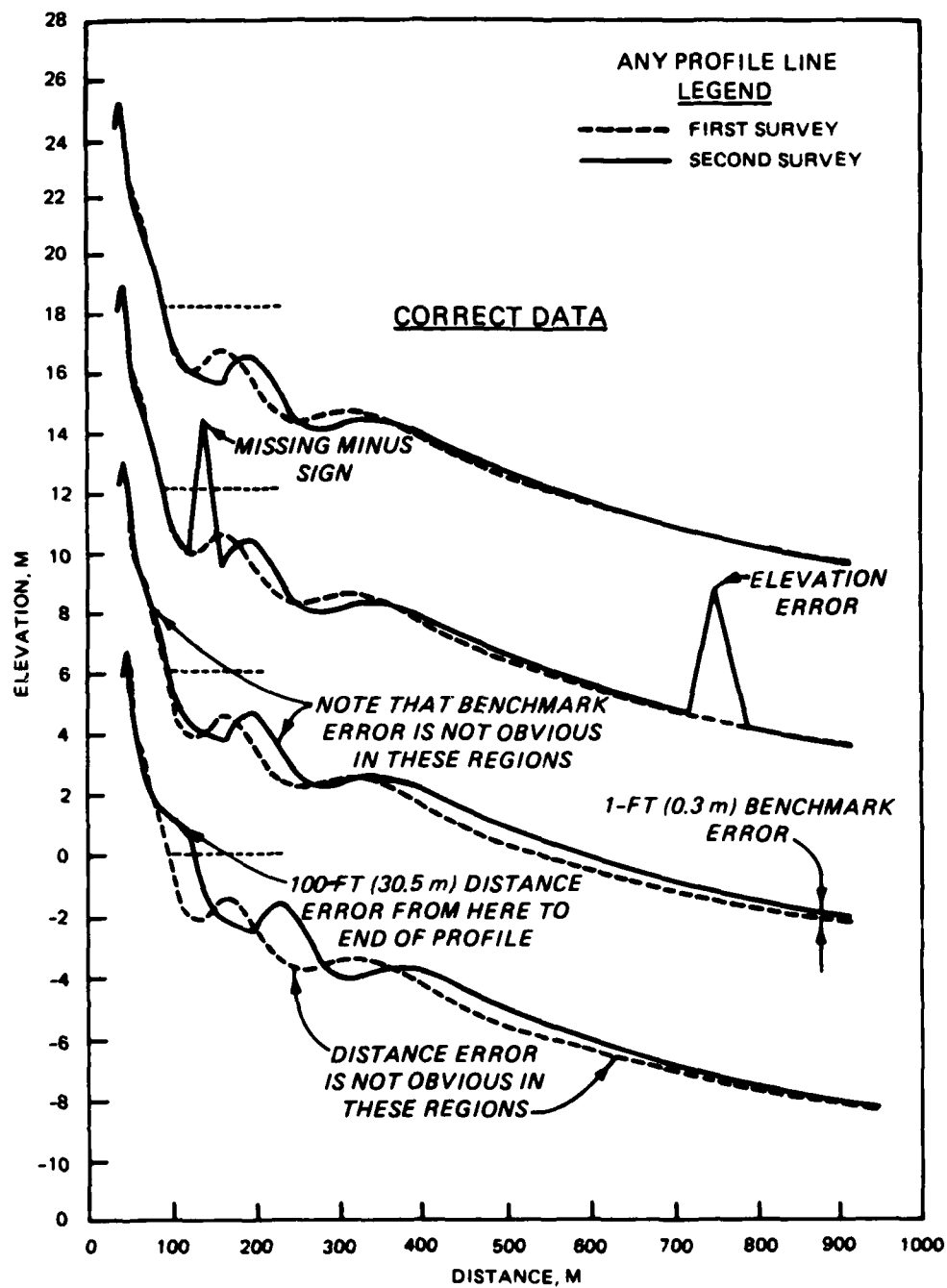


Figure 7. Samples of typical surveying errors and their effects

Zeiss operator to follow the vertical movement of the CRAB, but some significant features were probably missed.

30. A third type of operator error is caused by the instrument being triggered to begin a reading prior to properly aiming at the prisms. This short cut of triggering, then sighting the point, results in sampling the azimuth and zenith angles at the time of triggering and later use of these incorrect angles with the distance to the prisms to calculate the CRAB location. Errors affecting single points are usually easy to detect and remove.

31. An additional but unquantified source of error results from the thermal expansion and contraction of the CRAB frame and its liquid-filled tires. There is also some "error" introduced into the data by averaging the elevation over the 8.2-m base of the CRAB. The prism and the stadia board were mounted in the vertical plane of the back wheels equidistant between them. Some small error also occurs when sediment is compressed by the weight of the CRAB. Divers have observed tread marks on the bottom following the passage of the CRAB. No adjustment to the data has been made to account for these effects. It is suspected that they may be on the order of 3 to 6 cm. This amount of variation combined with the slight uncertainty of the over 100 different instrument setups results in a survey noise level that obscures small bed-level changes along the offshore reaches of the profiles.

Error minimization

32. Two steps were taken to minimize the errors associated with the operation of the Zeiss. First, only known locations were chosen as sites for the setup of the instrument, random locations were not used, and each survey always began with a shot to a prism in a known location. If the measured location of the prism was outside certain tolerances, ± 6 cm horizontal or ± 1.5 cm vertical, the instrument was restationed. Second, periodic checks to the reference prism during the course of the survey helped ensure that the instrument had neither gone out of level nor was in need of restationing.

Error identification

33. Errors in the data are most easily recognized through comparison with the past data collected for that profile. All data were compared with the immediately prior survey of the profile. More often than not, this comparison shows where possible errors occur. The suspect points can then be inspected more carefully and a decision made as to whether the point or points were in error or represented real changes on the profile. Figure 7 shows the

utility of comparison. Questionable data, where no clear error could be discerned, were noted and compared with the next survey as well. This provides a double check. Errors were also identified using the measured location of the reference prism shot in during the stationing procedures. Use of these measurements will be discussed in the next section.

Error correction

34. Corrections made to the data consist of two primary types; deletion of points, and addition or subtraction of biases. The biases were either constant because of improper stationing of the instrument or gradual (distance dependent) resulting from improper leveling of the instrument. Vertical errors from mis-leveling become increasingly evident with increasing distance. Vertical corrections to the data were made employing the known elevation of the reference prism and by comparison with surveys of the same profile immediately before and after the questionable data.

35. Most often the constant vertical offsets were the result of either improper stationing of the instrument (setting its elevation incorrectly), or, rarely, improper entry of the elevation of the prism cluster on the CRAB. Both of these errors could be traced to the data through the recorded setup procedure. If there was no evidence of a mistake in stationing the Zeiss or entry of the prism height, removal of the suspected bias was dependent on two factors; the bias had to extend over the entire profile (past the normal closure point), and there had to be no reason to expect evidence of profile activity at depth. For instance, if the measured profile showed significant erosion at a depth below the extreme profile closure depth during a period of below-normal wave activity, errors were strongly suspected. However, the bias was removed from the data only after a second survey of the profile further indicated that an error had been made.

36. Gradual biases, or rotations of the data, which result from calibration or leveling errors rather than stationing errors, can be more difficult to discern in the data. These corrections were made only to the early level and stadia board data. The shift in the data could be directly attributed to a miscalibration of the automatic level, or to a leveling error during or after setup of the instrument. The rotation needed to correct the data was determined by recalibration of the level.

37. Another category of data editing was the removal and/or correction of obviously erroneous data points. These points were usually the result of

improper entry of the height of the CRAB prism cluster into the Zeiss, errors due to the incorrect targeting of the prism cluster, or points which were unaccountably, but obviously, wrong.

38. The data were also corrected for the angle of tilt of the CRAB. The CRAB operator measures the two orthogonal angles on the main axes of the CRAB. Angles greater than 4 deg are radioed to the Zeiss operator who enters them into the recorded data. The angles are automatically accounted for during processing of the data.

39. Corrections made to the data, (except CRAB tilt corrections), are recorded in processing and data-collection logbooks and are coded into the data file. The meaning and format of the codes are presented in Appendix B.

Special Notes on the Survey Data

40. A number of surveys within the data set require specific discussion regarding data quality. The early stadia surveys (January to 1 June 1981) have already been described. From approximately 14 December 1982 until 9 February 1983, the Zeiss Elta-2 was intermittently producing questionable results which appeared as a systematic vertical error. From 24 February 1983 through 28 March 1983, the instrument was being repaired and alternate methods were employed. These included the use of the stadia board and automatic level to determine elevation and a Motorola Mini-Ranger positioning system to determine offshore distance (24 February to 3 March). A loaner Zeiss instrument was also employed (22 March to 28 March).

41. Because this was an unusually active period of profile response with a number of significant storms occurring, the data during this period have been retained in the data set. They do accurately reflect the changes in profile configuration which occurred, but the horizontal and vertical accuracies are less than for the remaining CRAB/Zeiss data.

42. Data prior to December 1981 were saved only to whole feet in distance and tenths-of-a-foot in elevation (normal accuracy for beach profile data). Because of the greater accuracy of the CRAB/Zeiss data, subsequent data are stored to tenths-of-a-foot in distance and hundredths-of-a-foot in elevation. This too has an impact on the overall accuracy of the data.

PART III: PROFILE RESULTS

43. The data presented in this report have been described by Birkemeier (1985a). Some of the discussion from that report is repeated here as an aid in interpreting the data. Profile changes at the FRF occur at time scales ranging from minutes to annual cycles and longer. Time scales resolvable with the data in this report vary between a few days and 1 to 2 years. Though the profiles have varied in configuration from nearly unbarred to triple barred, they typically exhibit a double bar with a narrow and well-defined inner bar and a broad outer bar. Figure 8 illustrates five of the configurations observed during the study.

44. The profile envelope defined by all surveys of line 188 is shown in Figure 9. The plot of maximum vertical change in the upper half of Figure 9 indicates most profile activity is restricted to depths less than 7 m with little measurable vertical variation at deeper depths (only 15-cm maximum variation at 8-m depth). It is not clear how much of this 15 cm is real. Birkemeier (1985b) examined the changes within the data set caused by storms and found that significant storm-induced bed-level changes (>3 cm) occurred at depths less than -6.4 m relative to mean low water (-6.8 m below National Geodetic Vertical Datum, NGVD).

45. One of the best indicators of profile configuration and activity is the location of the bar crest. Large changes to the profile in terms of volume changes always result in movement of the bar system. Minor storms typically force only the inner bar offshore, while larger storms may move both bars offshore, depositing sand in deeper water. Storm changes were rapid, occurring over periods of 1 to 5 days. The rapidity of these changes is discussed further in Sallenger, Holman, and Birkemeier (1985).

46. Onshore bar movement usually corresponded to periods of low waves between storms. The speed and the amount of recovery were affected by the wave conditions and by the poststorm configuration of the profiles. All the bar features tended to disappear during extended periods of low wave conditions.

47. An example of the modifications caused by storms is shown in Figure 10. The surveys bracket a series of three storms with the most severe occurring 13-15 November 1981. In contrast, the slow recovery from the changes caused by the fall 1981 storms occurred during 6 months of relatively

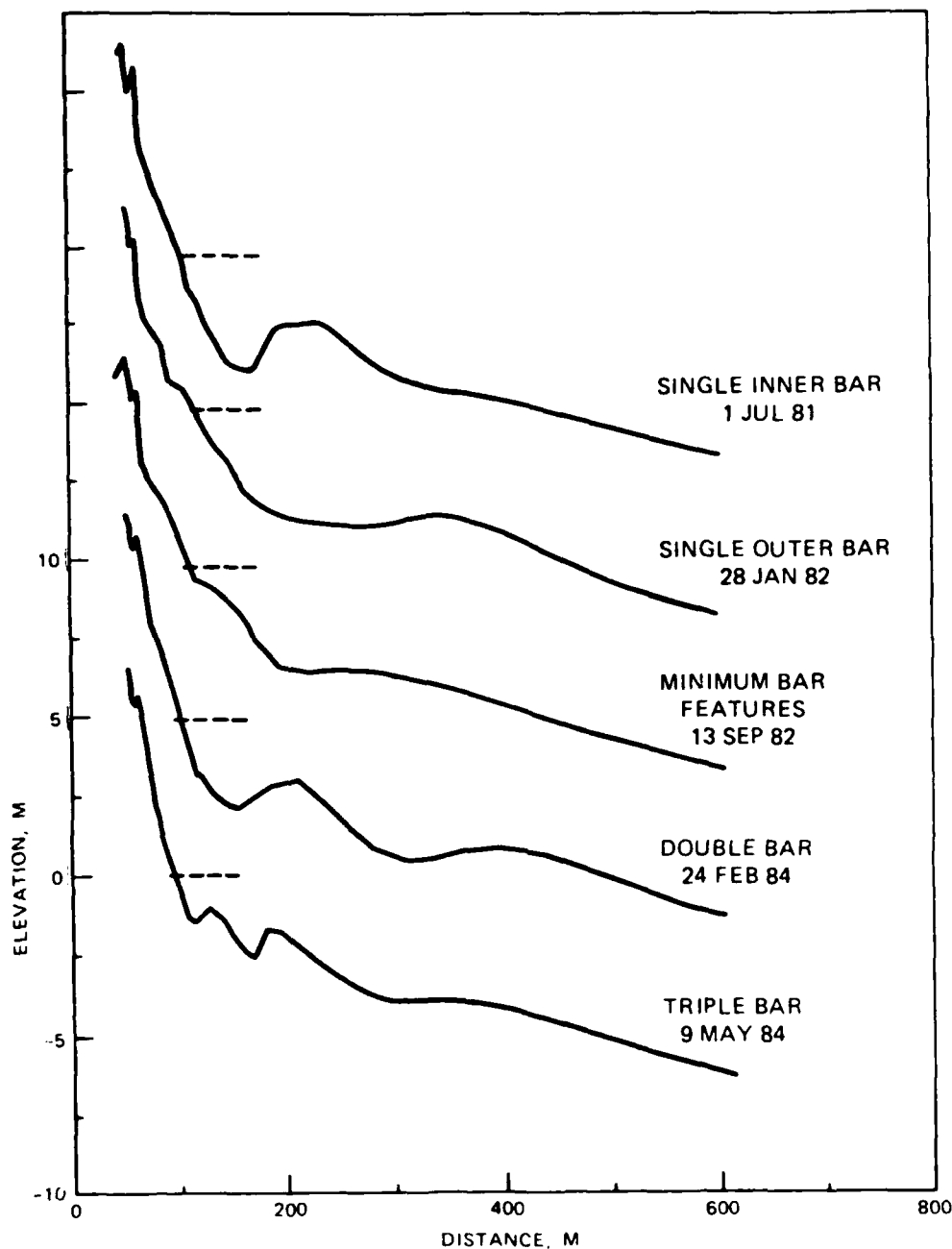
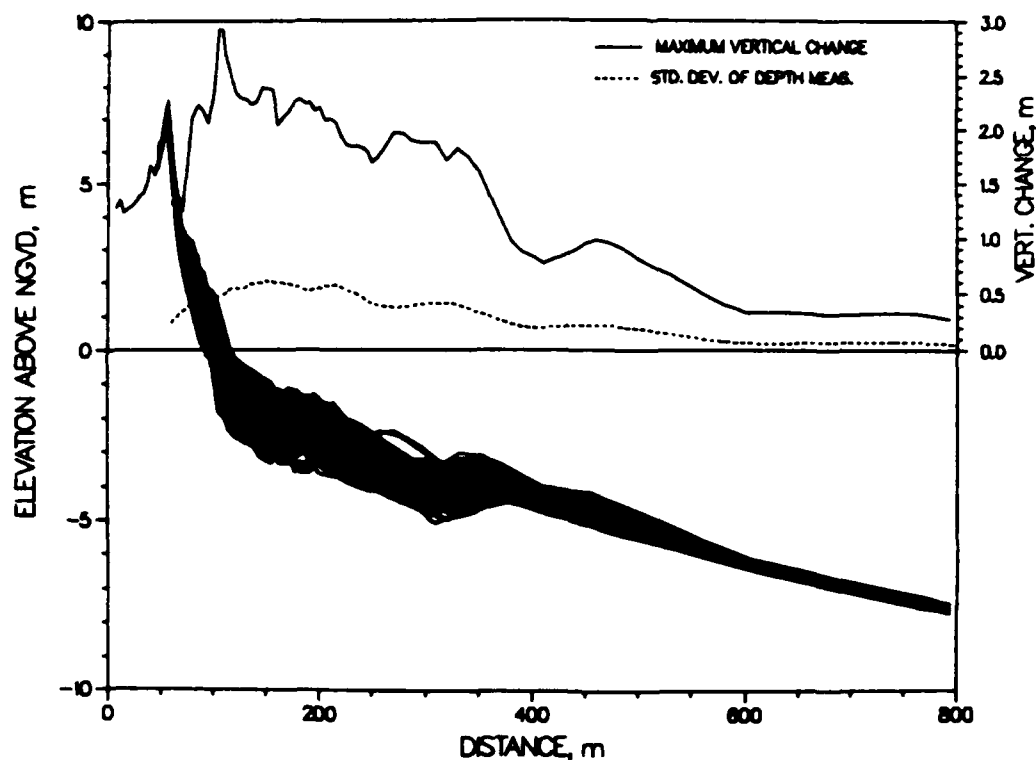


Figure 8. Typical profile configurations occurring in the data set for profile line 62

calm conditions from February to August 1982 (Figure 11).

48. A critical feature of this data set is the fact that four profiles separated in space were measured. Thus, some feeling for the three-dimensional response of the beach is possible. Users of these data are



PROFILE LINE 188, 127 SURVEYS FROM 20 JAN 81 TO 17 DEC 84

Figure 9. Envelope of all surveys of profile line 188

referred to Sallenger, Holman, and Birkemeier (1985) and Howd and Birkemeier (1987) for a discussion of the rapid three-dimensional changes that have been observed at the FRF. As an example, Figure 12 shows profiles 58 and 62 for a sequence of days during October 1982. Initially, both profiles show the bar moving offshore. By the 15th, the bar has begun to migrate onshore at line 62, but continues to move offshore along line 58. (These two profile lines are separated by less than 100 m.)

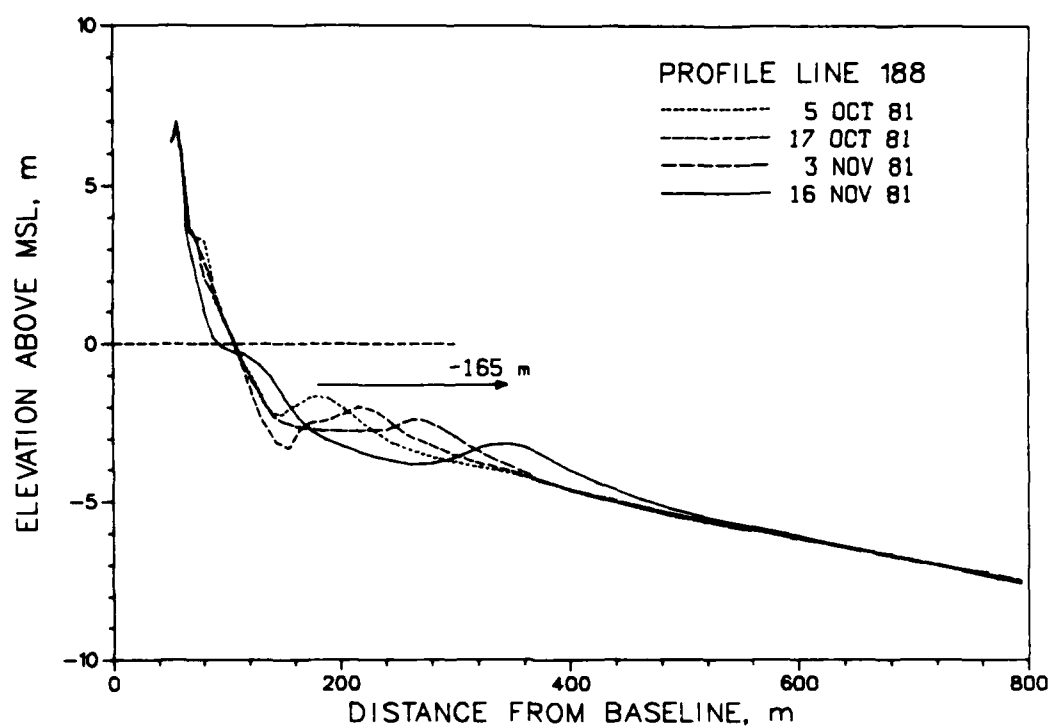


Figure 10. Rapid offshore movement of sediment at line 188 resulting from passage of three fall 1981 storms

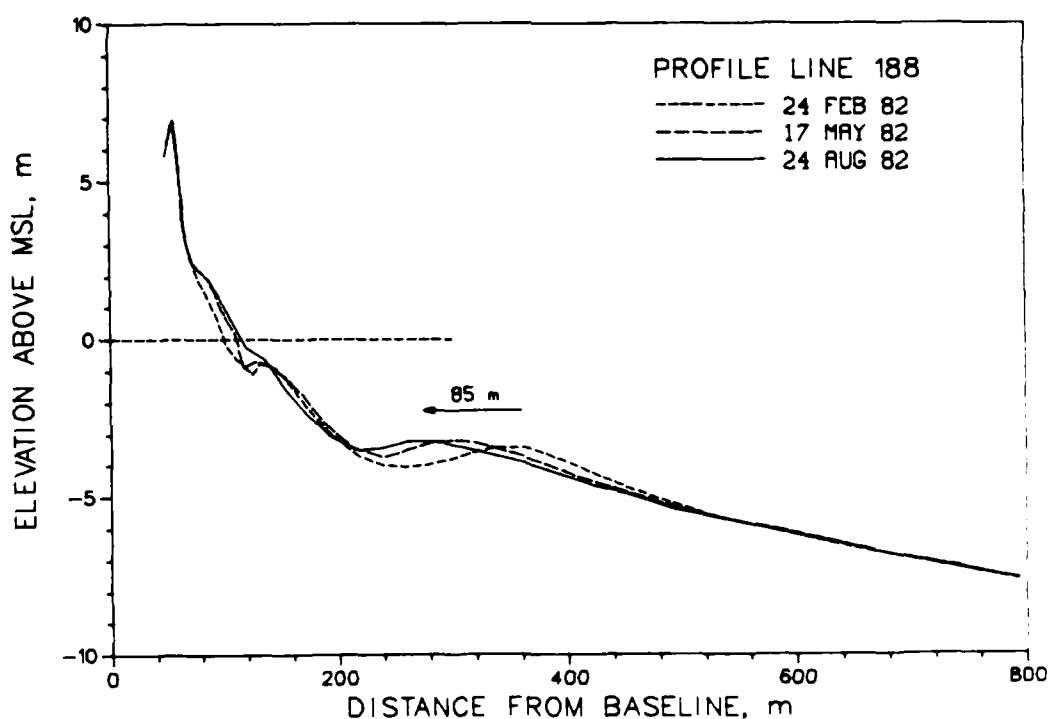


Figure 11. Slow onshore recovery of the outer bar during a 6-month period of low wave conditions

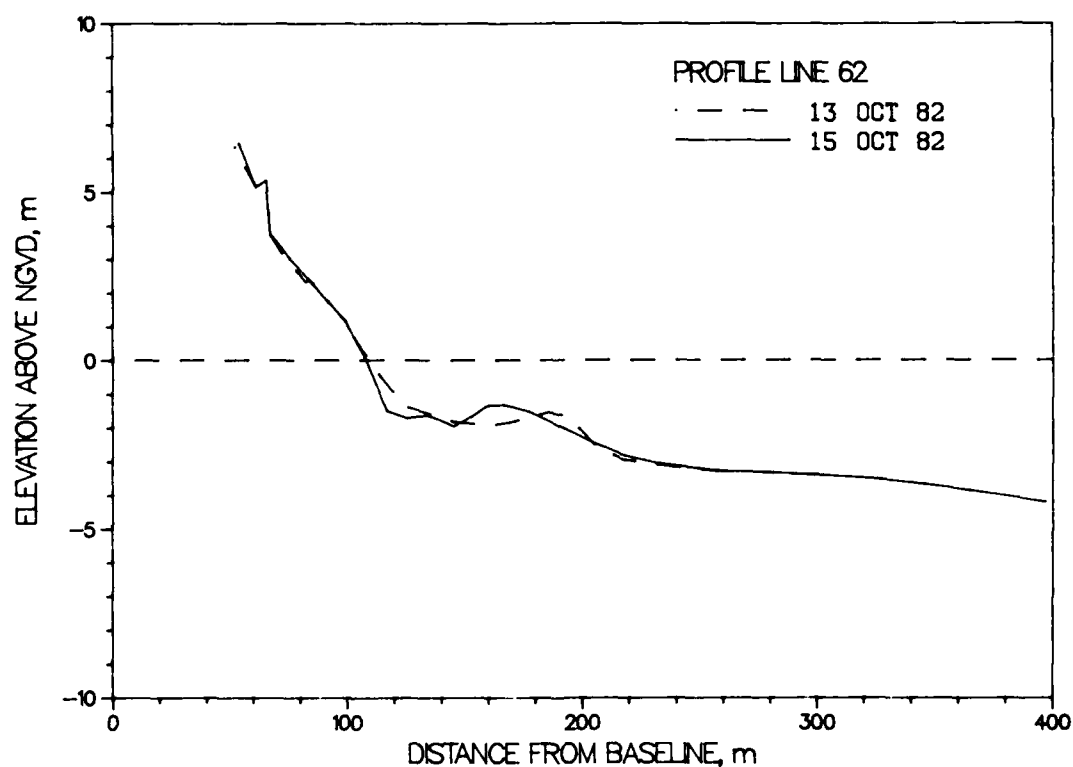
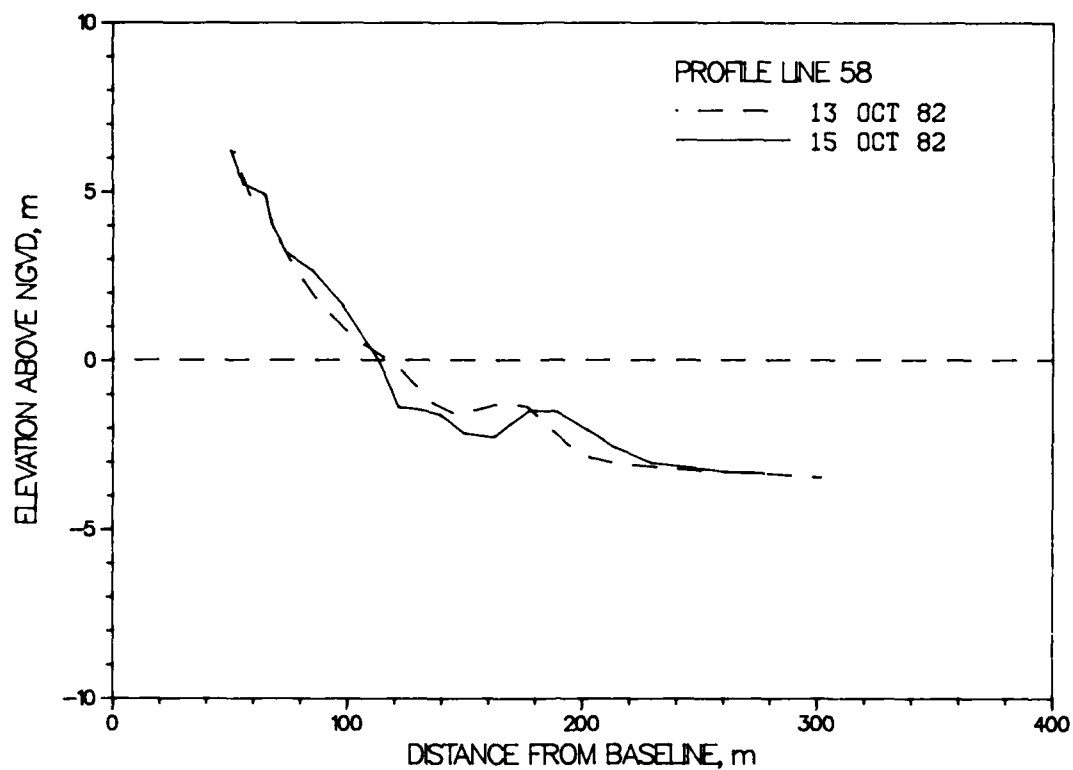


Figure 12. Evidence of three-dimensional profile response at lines 58 and 62 during October 1982

PART IV: WAVE AND WATER-LEVEL DATA

Wave Height and Period

49. The wave heights plotted in Appendix D and tabularized in Appendix E were collected as part of the routine collection program of the FRF Measurements and Analysis work unit. Details of the collection of this data are available in the FRF Annual Data Summaries (Miller 1984; Miller et al. 1985, 1986). The data from a number of gages are sampled at 4 Hz, every 6 hr (hourly during storms) for 20 min. The energy-based significant wave height H_{m0} is computed as four times the standard deviation of the 20-min record. The wave period is computed as period associated with the peak of the wave spectra.

50. To provide as complete a record as possible, data from two gages have been combined. The majority of the record is from Gage 625, a Baylor wave staff gage located at the seaward end of the pier. When this gage was inoperative, data from Gage 620, a Waverider buoy located directly off the pier end in 18 m of water, were transformed to the pier end location using the method of Hallermeier (1983). This method considers frictional dissipation and was developed using data from the FRF.

51. During large storms, Gage 625 was in the surf zone and wave heights were saturated, i.e., limited by wave breaking. The maximum wave height limit depends on water level but is usually under 3 m. The maximum recorded wave height of 3.5 m occurred during a storm in November 1981 that coincided with abnormally high spring tides.

52. The tables in Appendix E contain daily measurements of wave height and period for wave heights under 2 m and measurements every 6 hr for waves over 2 m.

53. More detailed wave information, including wave spectra and data from other gages, is available through the CERC Coastal Engineering Information and Analysis Center (CEIAC).

Water-Level Data

54. The water-level data presented in Appendix F were measured at a National Oceanic and Atmospheric Administration/National Ocean Service (NOAA/NOS) tide station located at the end of the research pier. The data are recorded every 6 min. NOS interpolates missing values using data from nearby gages, accounting for known time lags and elevation differences. The data presented in Appendix F represent the total water-level variation including both the astronomical tides and storm surges. The storm surge is usually defined as the difference between the actual water level and the predicted tides. The total water level should give a better indication of possible forcing of profile change than would the predicted tides or storm surge alone.

55. Because of the voluminous amount of water-level data, Appendix F includes only plots of the water level. More detailed data are available through CEIAC or from NOAA/NOS.

PART V: SUMMARY

56. Four years of high-quality beach profile data collected at the FRF are presented. These data are unique in that they cover the most active part of the profile from the dune out past the depth of closure. The data offer a rare look at the dynamic and often surprising changes that naturally occur in the nearshore zone. The majority of the profile data were collected using the FRF CRAB and a highly accurate electronic surveying instrument. Some relevant dynamic parameters to profile change (wave height, period, and observed tides) are also presented.

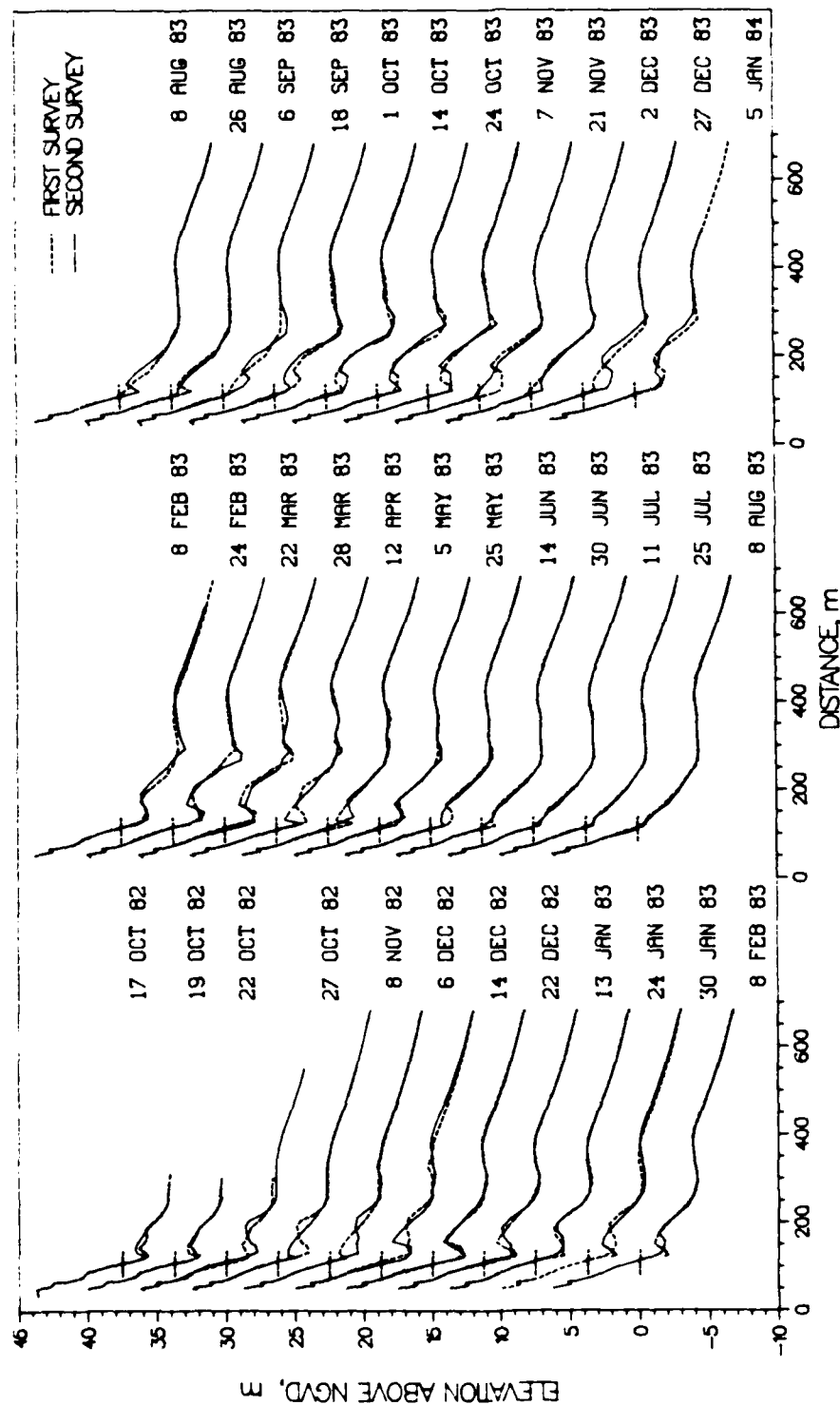
57. The data should be useful to coastal engineers and researchers who need to have an understanding of the dynamic nature of the nearshore zone. They can provide input and calibration data to numerical and physical models of profile changes. Long-term and seasonal profile envelopes can be computed and used as a guide for determining cable and ocean outfall burial depths and where best to place wave- and current-measuring instruments.

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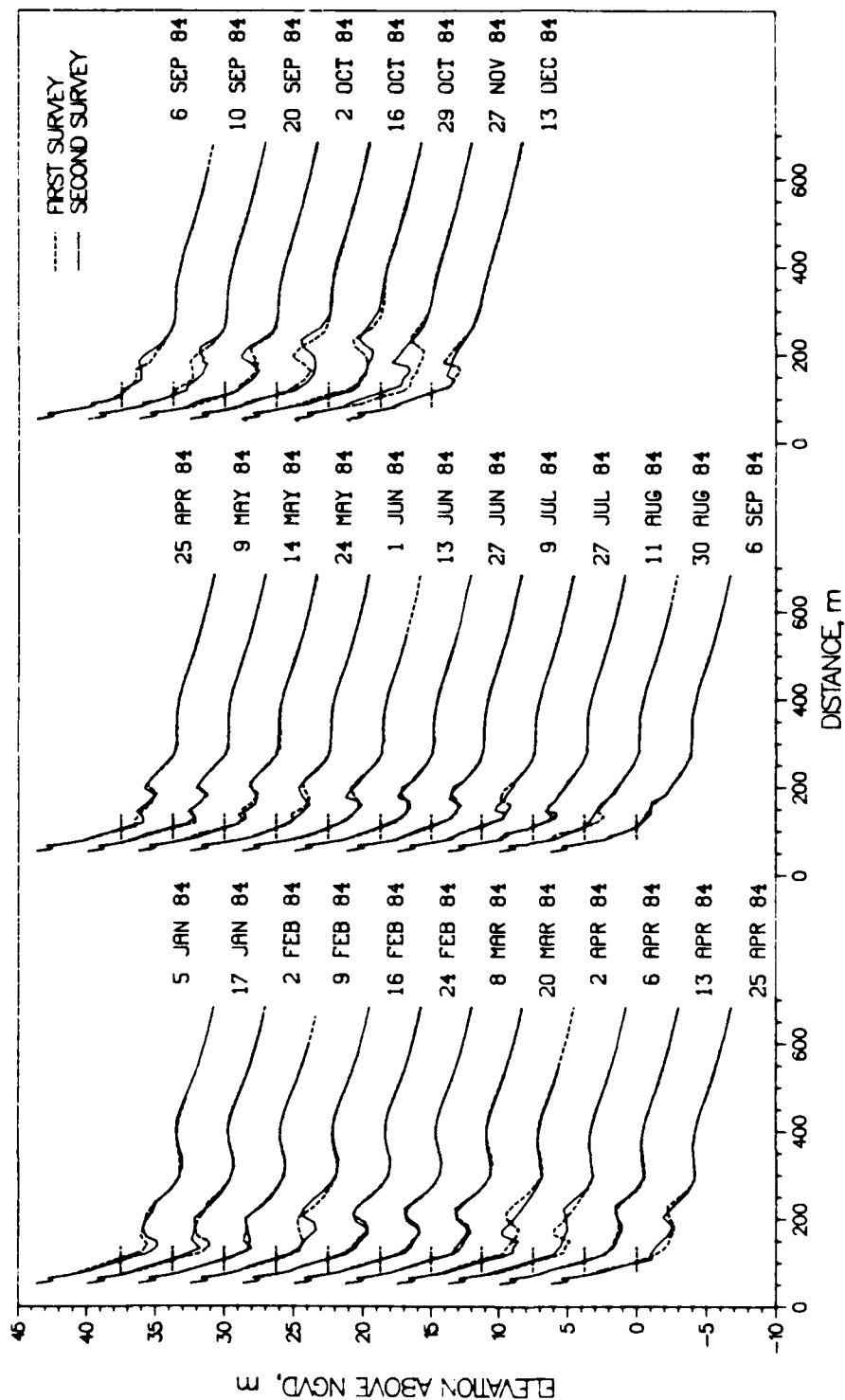
APPENDIX A: SURVEY PLOTS, 1981-1984

This appendix contains plots of the survey data included in Appendix B. The plots are presented by profile number, starting from the north end of the Field Research Facility property. Refer to Figure 1 of the main text for the location of the profile lines with respect to the pier. Each profile is plotted along with the preceding profile; thus, the change between surveys can be seen. The most recent survey is shown as a solid curve; the previous survey is dashed. The dates of the surveys are given to the right of the data; the lower date corresponds to the solid line.



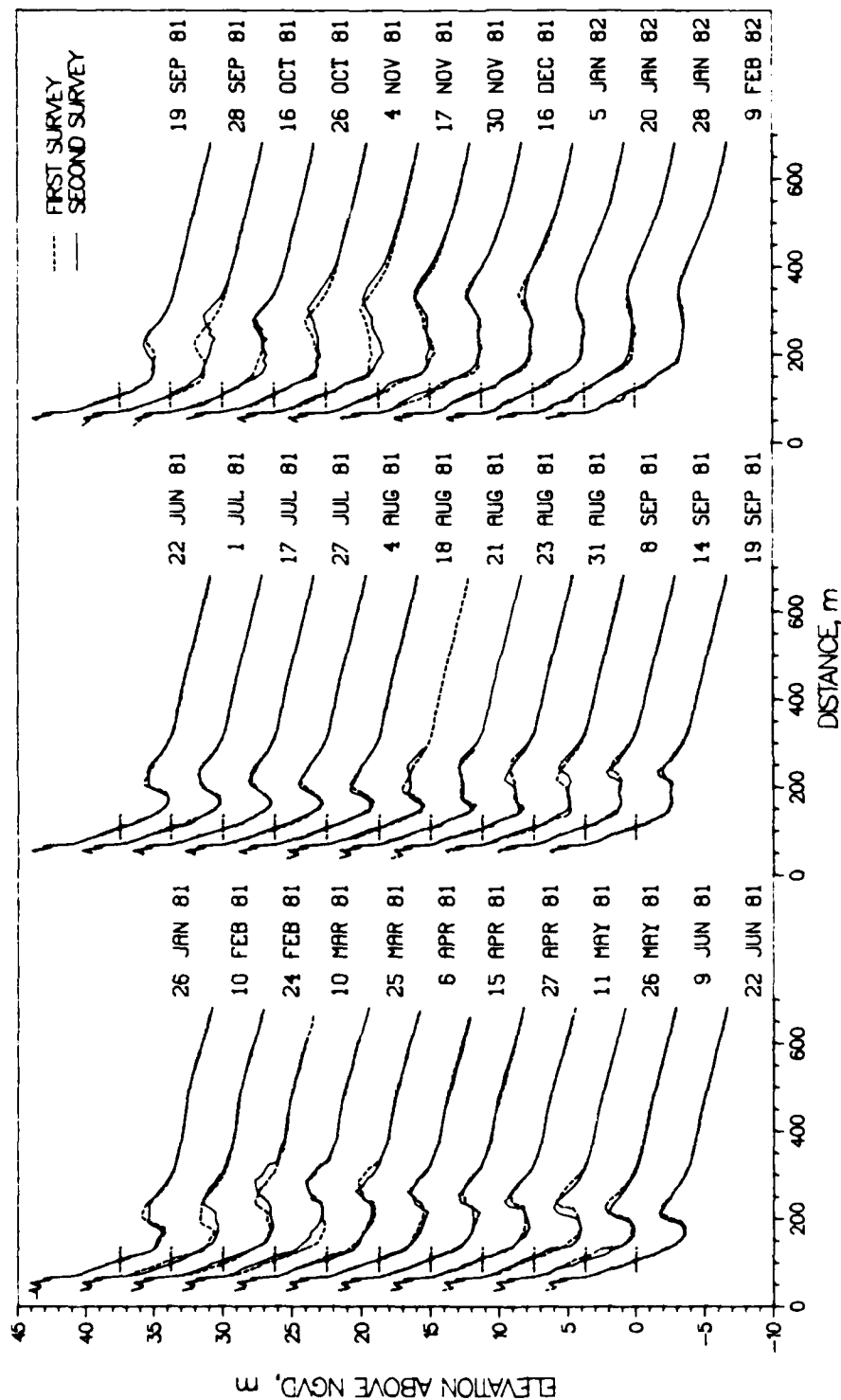
PROFILE LINE 58

Figure A2. Profile line 58, 17 Oct 1982 - 5 Jan 1984



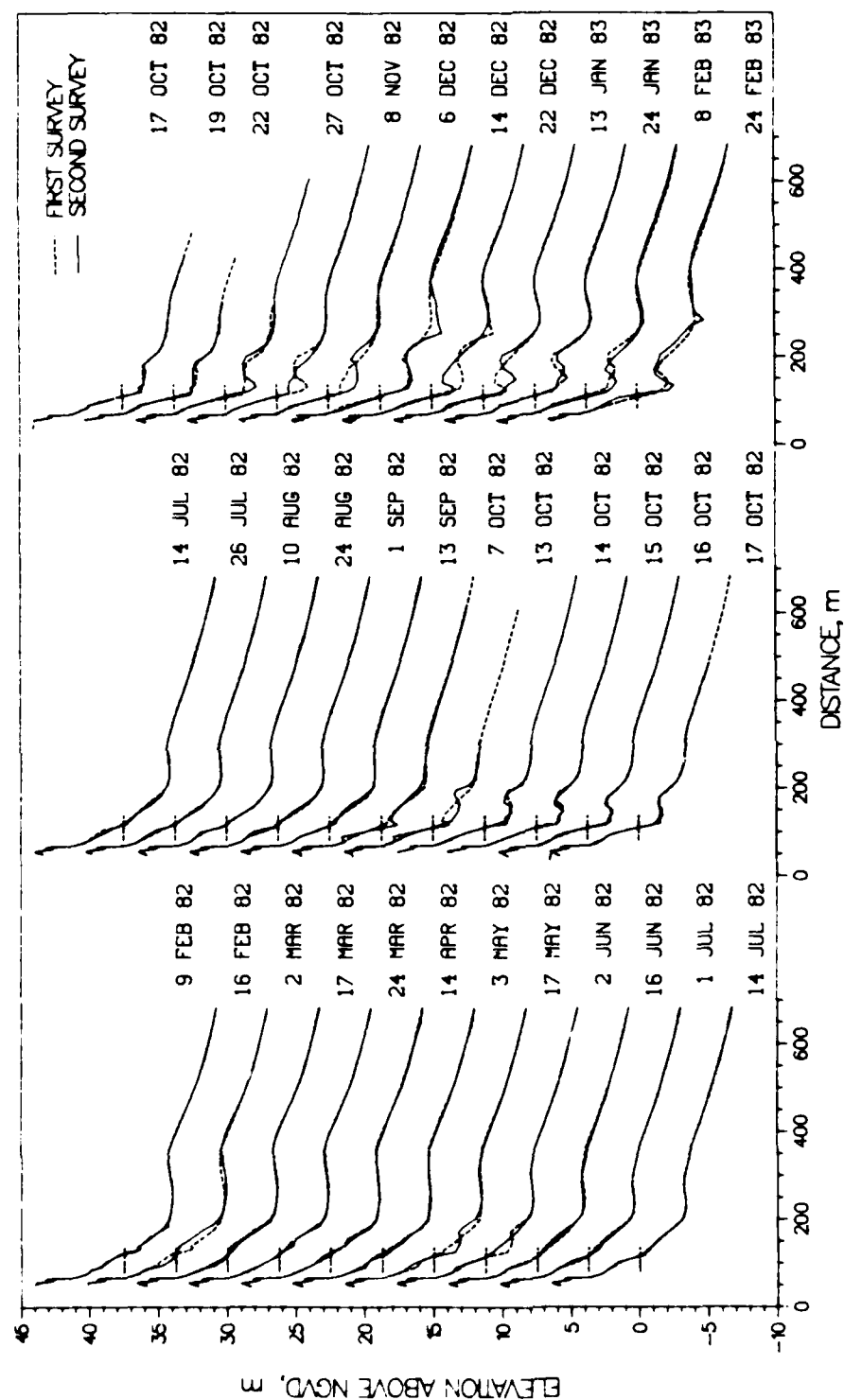
PROFILE LINE 58

Figure A3. Profile line 58, 5 Jan 1984 - 13 Dec 1984



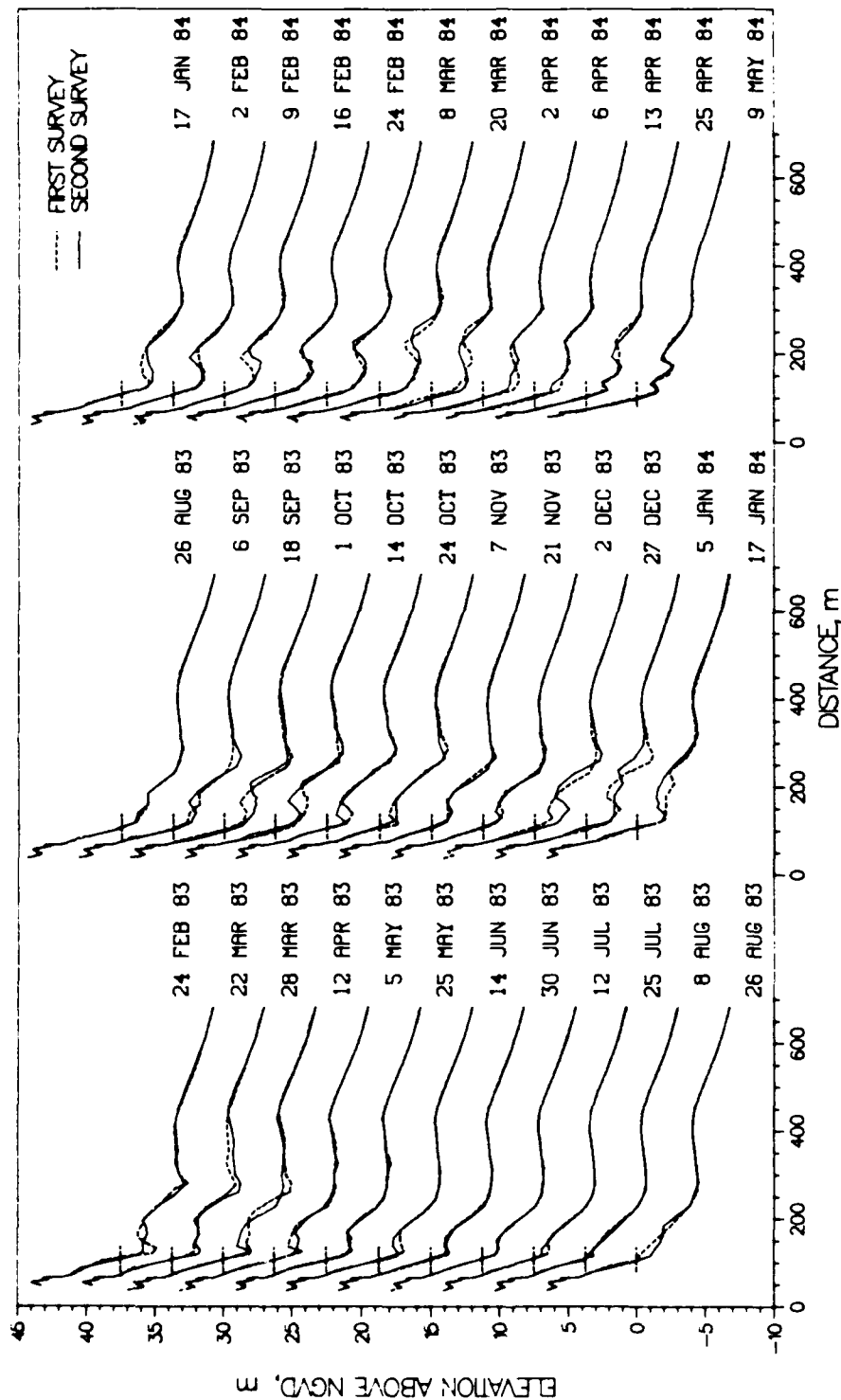
PROFILE LINE 62

Figure A4. Profile line 62, 26 Jan 1981 - 9 Feb 1982



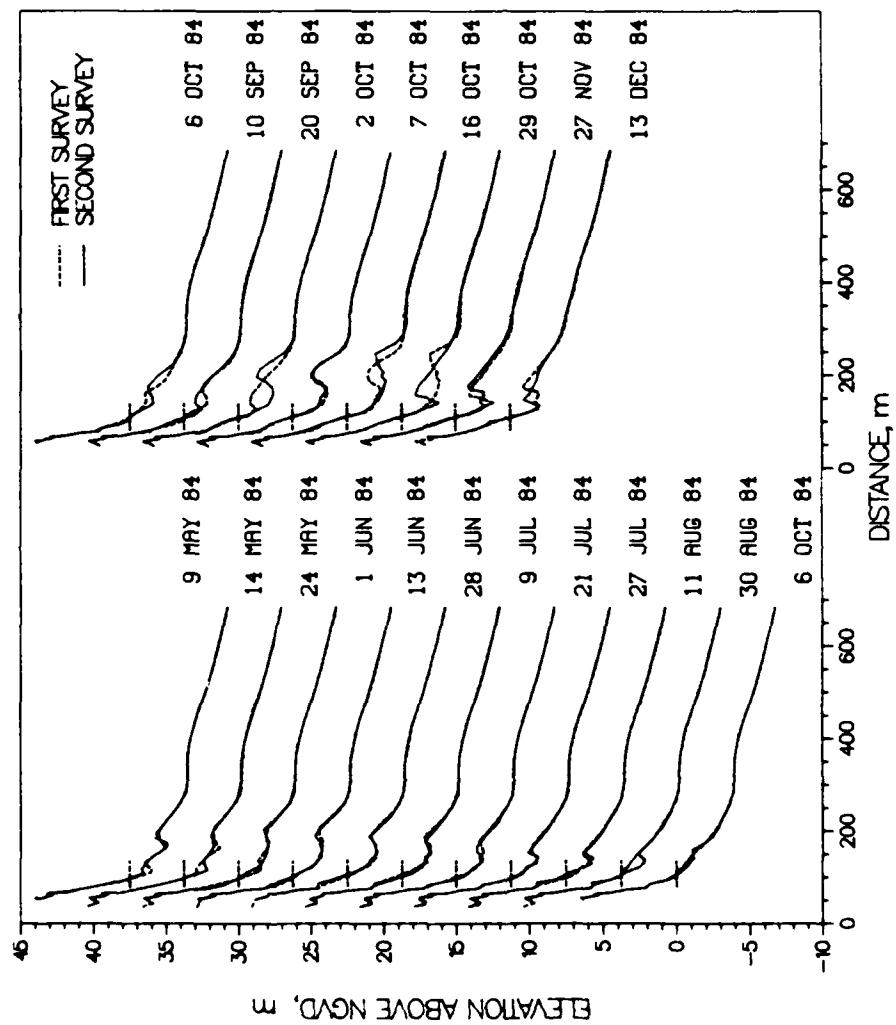
PROFILE LINE 62

Figure A5. Profile line 62, 9 Feb 1982 - 24 Feb 1983



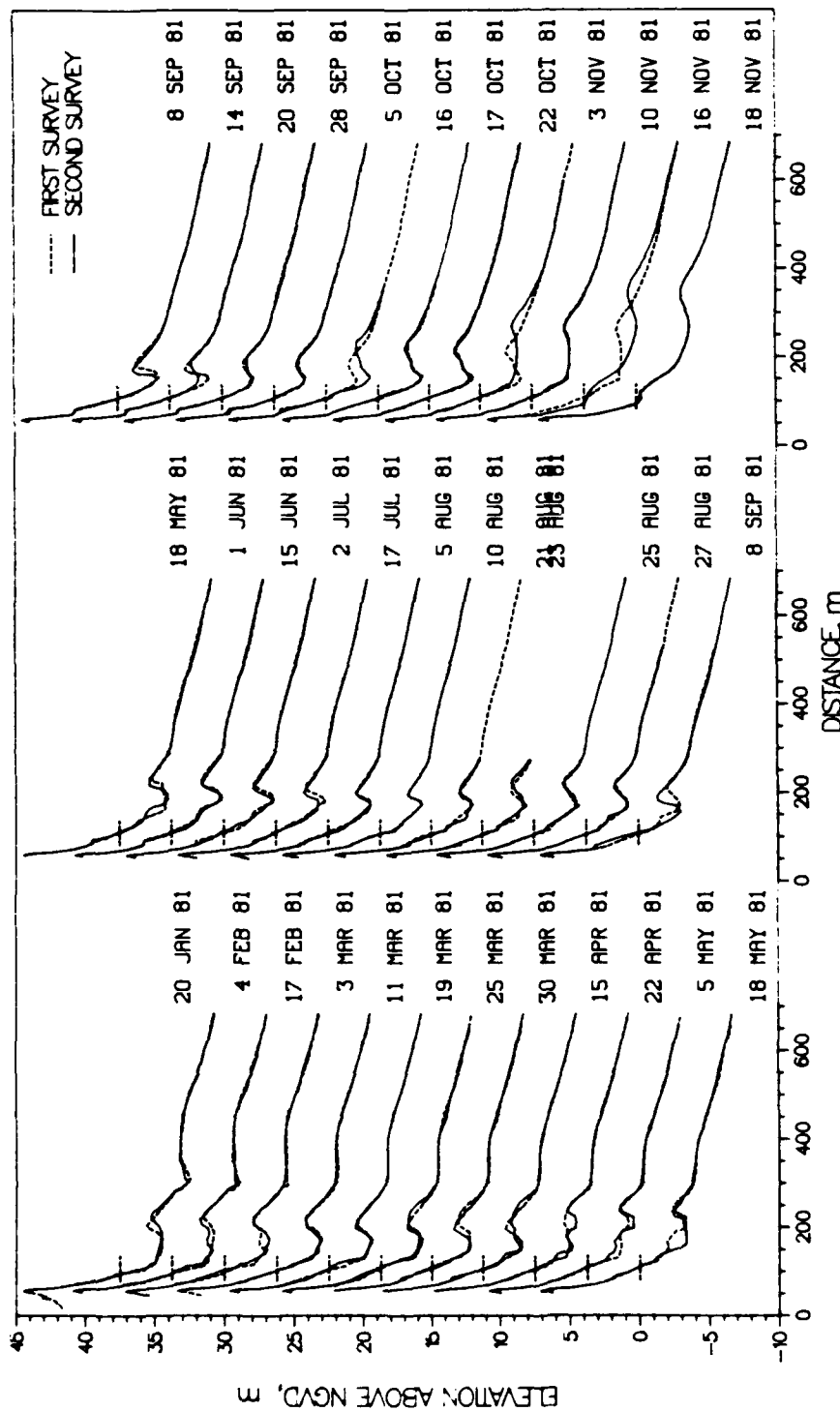
PROFILE LINE 62

Figure A6. Profile line 62, 24 Feb 1983 - 9 May 1984



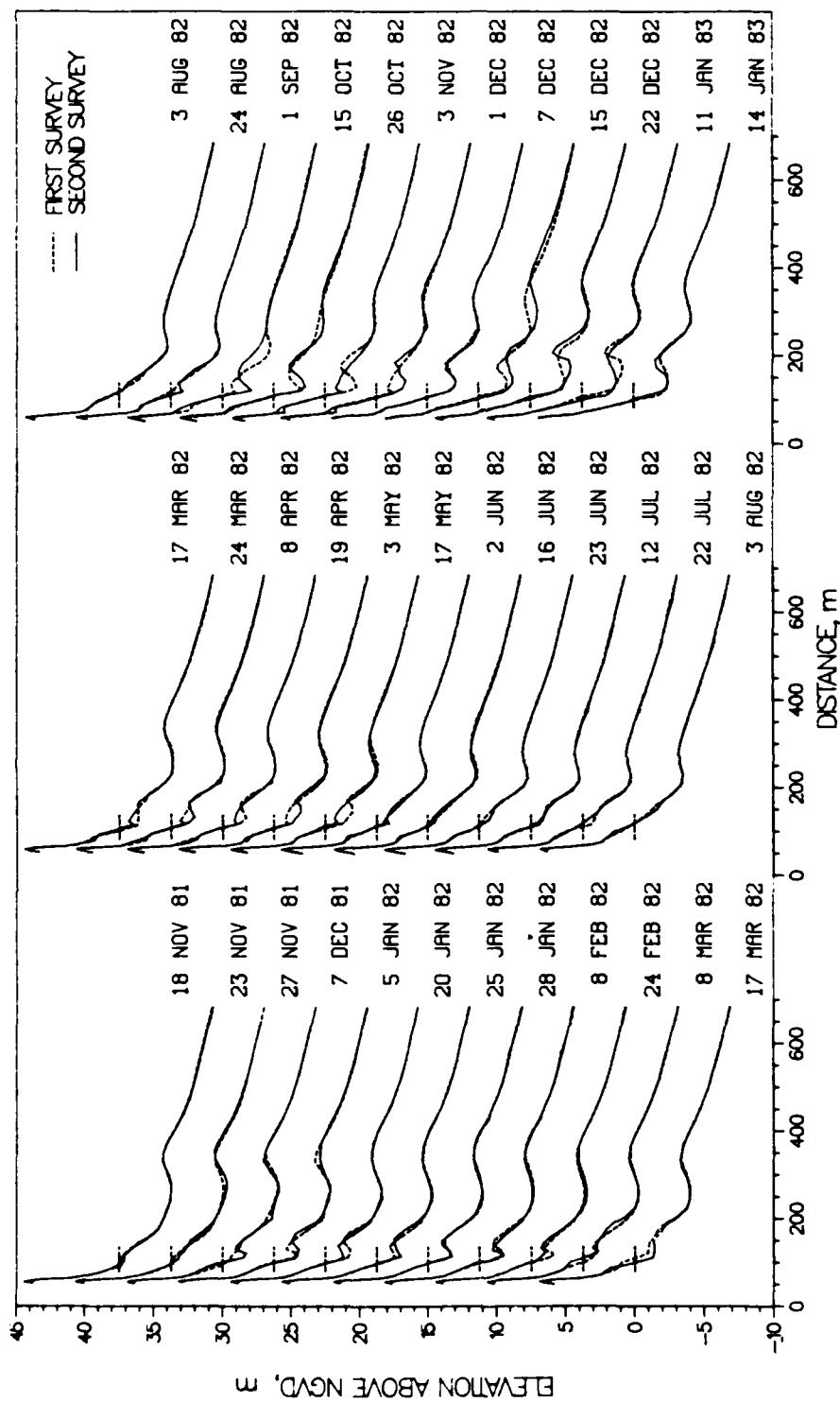
PROFILE LINE 62

Figure A7. Profile line 62, 9 May 1984 - 13 Dec 1984



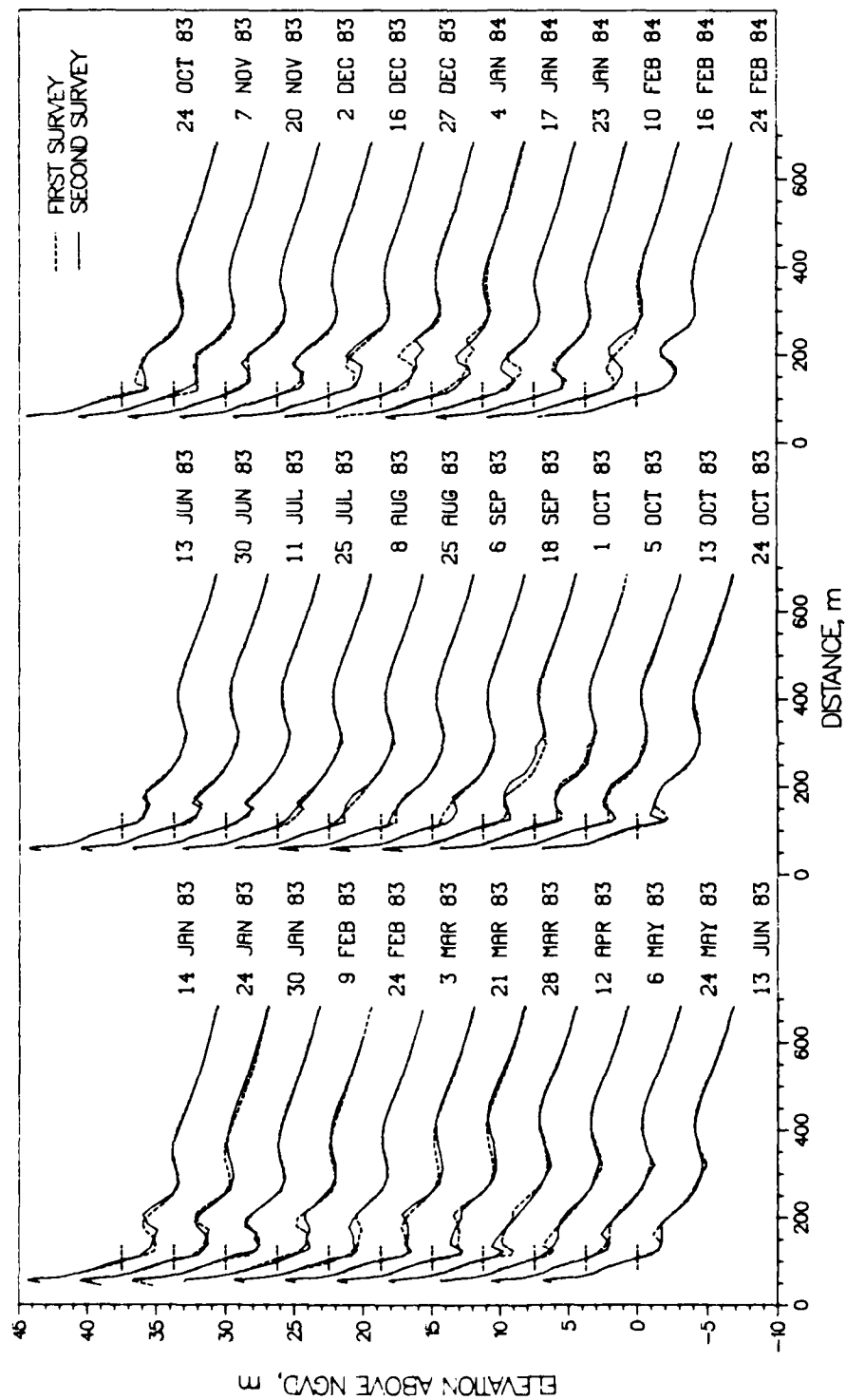
PROFILE LINE 188

Figure A8. Profile line 188, 20 Jan 1981 - 18 Nov 1981



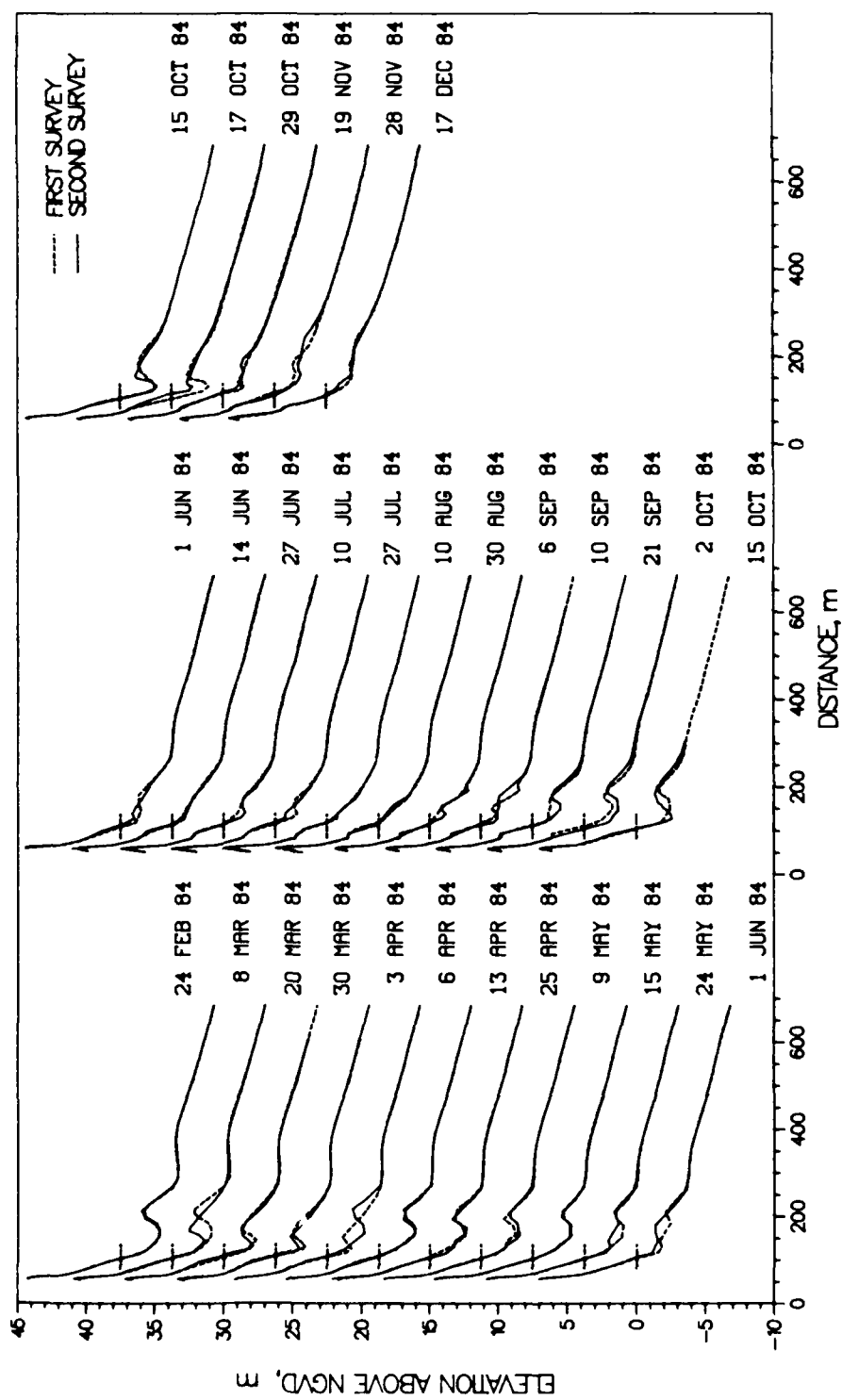
PROFILE LINE 188

Figure A9. Profile line 188, 18 Nov 1981 - 14 Jan 1983



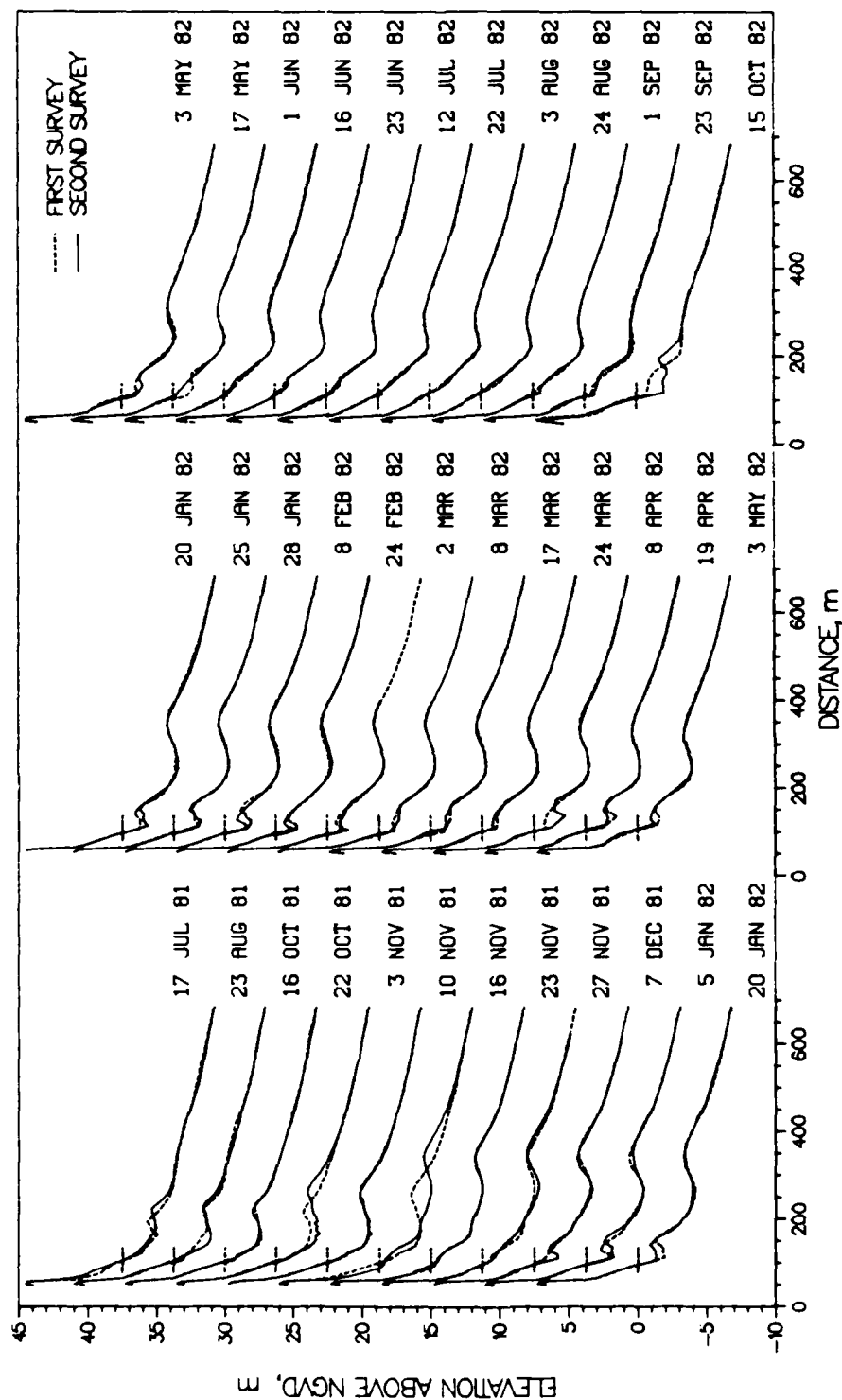
PROFILE LINE 188

Figure A10. Profile line 188, 14 Jan 1983 - 24 Feb 1984



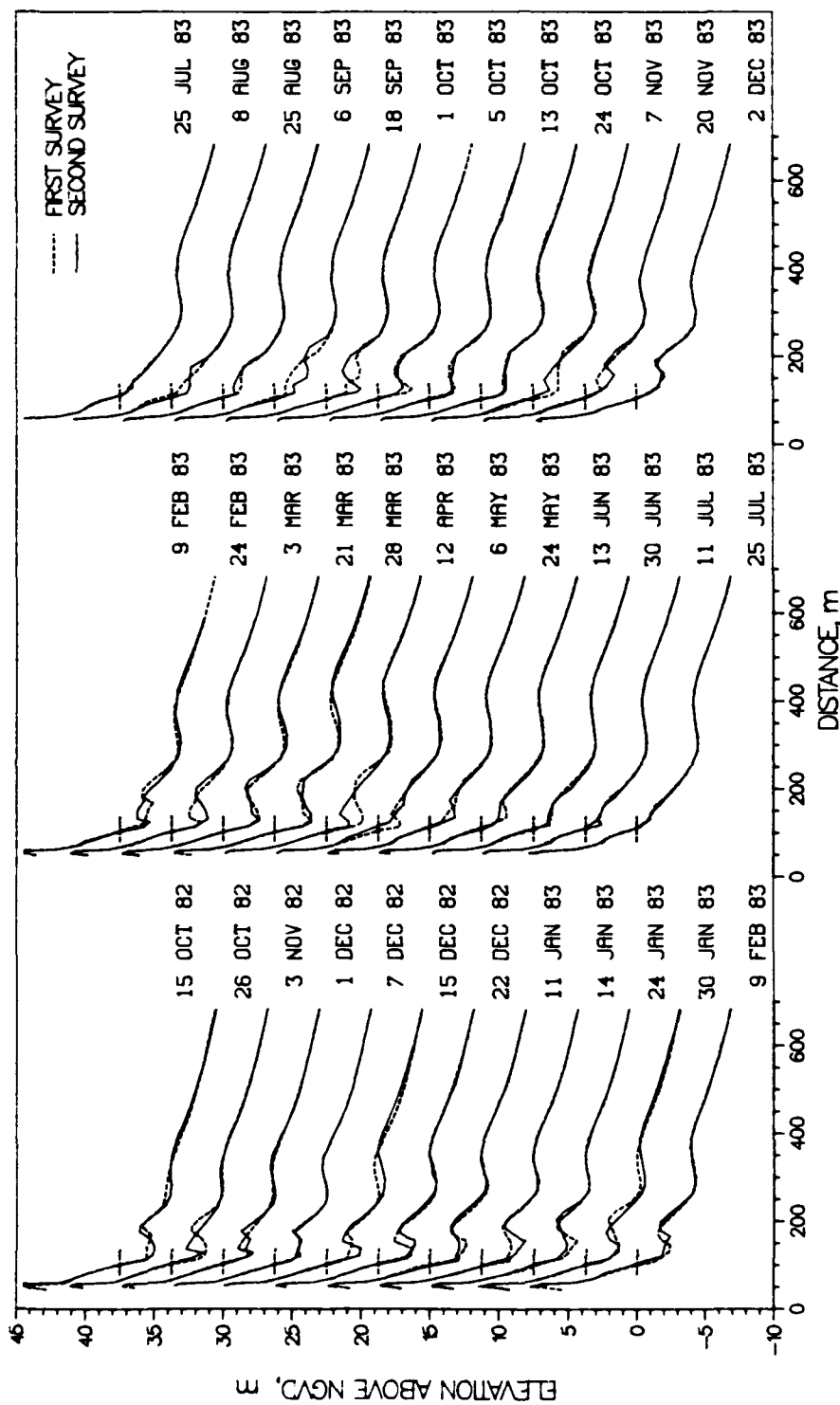
PROFILE LINE 188

Figure All. Profile line 188, 24 Feb 1984 - 17 Dec 1984



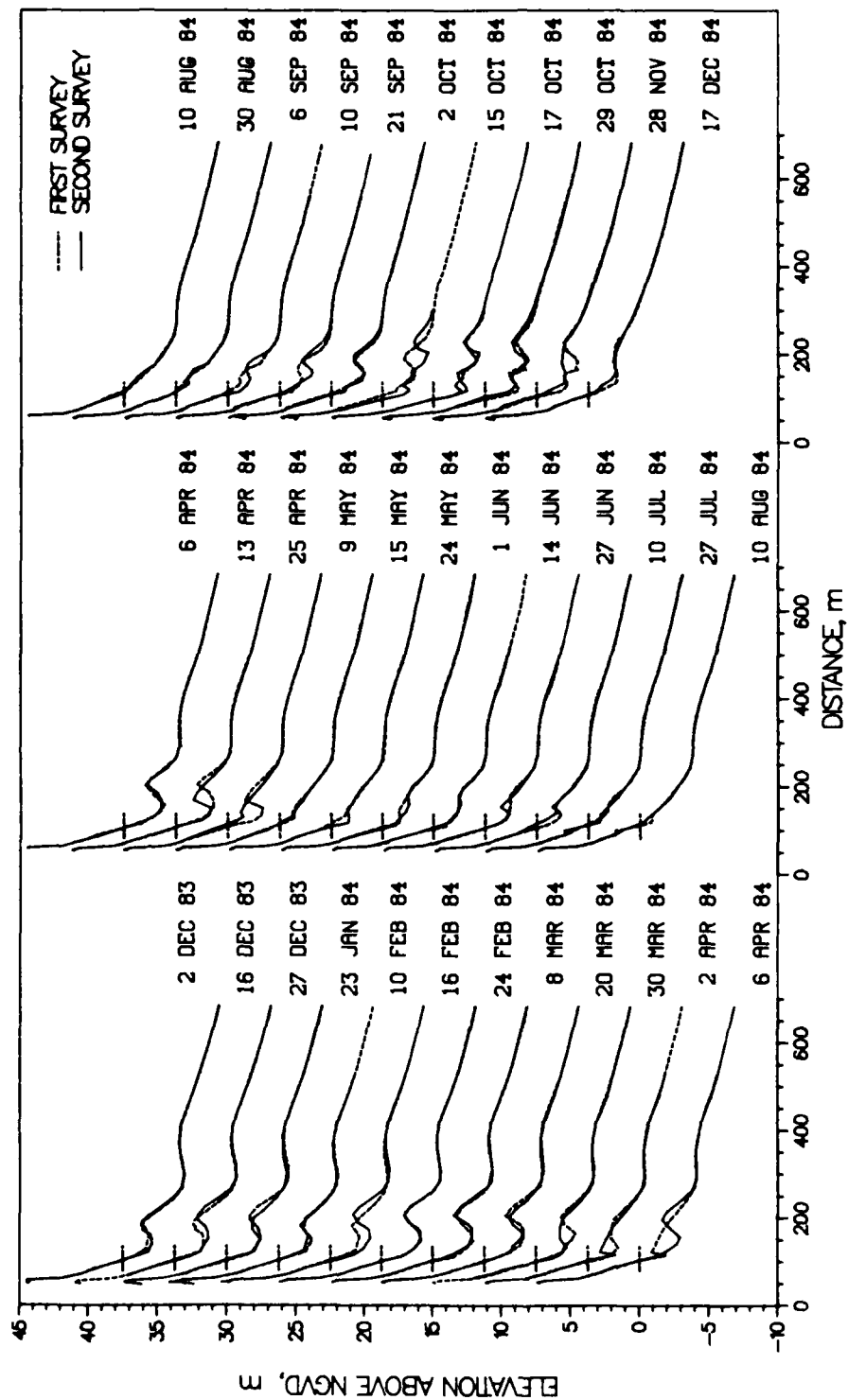
PROFILE LINE 190

Figure A12. Profile line 190, 17 Jul 1981 - 15 Oct 1982



PROFILE LINE 190

Figure A13. Profile line 190, 15 Oct 1982 ~ 2 Dec 1983



PROFILE LINE 190

Figure A14. Profile line 190, 2 Dec 1983 - 17 Dec 1984

APPENDIX B: SURVEY DATA LISTING

1. This appendix contains the profile data in BPAS Edit 2 card format (Fleming and DeWall 1982),* along with a checksum value. When entering the data into a computer, do not enter any values past column 80. These are produced when the data are run through the program given in Appendix C. Use the given values to check your version for possible data-entry errors.

2. The format of the data is as follows:

First card in each record

<u>Position</u>	<u>Entry description</u>	<u>Format</u>
1-2	Locality Code (ILOC)	A2
3-5	Profile line number (IPROF)	I3
6-9	Survey identification number (ISUR)	I4
10	Card number (always 1 for first card) (N)	A1
11-16	Date of survey (IDATE)	I6
17-21	Time of survey (ITIME)	I5
22-24	Number of coordinate pairs for survey (I)	I3
25-29	Minimum elevation for survey (MIN)	F5.2
30-40	Data change codes (INFO)	A11
41-80	First four distance-elevation pairs (Y,Z) 4(F5.1,F5.2)	

Continuation Cards

1-9	Same as for first card	
10	Card number (2-9, then A-Z)	A1
11-80	Seven distance-elevation pairs	7(F5.1,F5.2)

If there are exactly four coordinate pairs (only one card needed), there must be a second blank card following.

3. The format statement to read the data is as follows:

```

READ (??,????) ILOC, IPROF, ISUR, N, IDATE, ITIME, I, MIN,
.INFO, (Y(J), Z(J), J=1,I)
???? FORMAT (A2,I3,I4,A1,I6,I5,I3,F5.2,A11,4(F5.1,F5.2),/, (10X,
.7(F5.1,F5.2)))
  
```

4. The correction codes contained in the INFO field have the following meanings:

G = Gradual correction	C = Constant correction
H = Horizontal correction	V = Vertical correction
D = Deletion of points	A = Addition of points
E = Entire profile	S = Selected random points
O = Offshore points	B = Beach points
MR = Mini-Ranger data	

* See References at the end of the main text.

The remaining space is used to give an indication of the magnitude of the changes made, either by the inclusion of the number of points affected or by the magnitude of the change, or both.

5. The survey data are shown in Table B1.

Table B1
Survey Data for Lines 58, 62, 188, and 190 for 1981-1984

39 58	291810717	1200 50-3200	1550 1980 1680 2050 1830 1690 1940 1540	56	
39 58	292 2100 1530 2220 1340 2450 1040 2620 930 2750 800 2900 710 3080 590			0	
39 58	293 3350 340 3390 370 3790 0 4090 -300 4390 -620 4620 -980 4890-1000			13	
39 58	294 5050-1100 5240-1100 5720-1110 6090 -830 6430 -610 6830 -540 7260 -580			75	
39 58	295 8190 -810 9040 -990 9670-112010510-125011700-135012740-141013880-1490			45	
39 58	29615040-158016240-167017610-179019270-192021260-208022410-217023870-2260			15	
39 58	29725670-239027100-247028460-254030200-265031490-273032950-280034210-2900			18	
39 58	29835390-295036600-301037870-306039340-3200			31	
39 58	371810823 1600 43-2080	1690 2050 1810 1720 1940 1550 2140 1640		16	
39 58	372 2240 1330 2400 1130 2490 1000 2840 630 3280 310 3620 -10 3820 -270			46	315
39 58	373 4080 -380 4310 -500 4660 -680 4900 -850 5130 -980 5440-1000 5680-1010			6	
39 58	374 5910-1020 6080-1060 6360-1090 6630-1160 6980-1150 7260-1150 7510-1030			37	
39 58	375 7750 -990 7970 -790 8330 -710 9080 -820 9610-104010030-113010460-1200			68	
39 58	37611060-128011830-134012630-140013410-148014180-153015120-160016090-1670			42	
39 58	37716840-175017900-184019320-194021000-2080			73	
39 58	461811016 1600 39-1760	1240 1910 1240 1940 1500 1960 1690 2020		99	
39 58	462 1870 1620 2070 1560 2080 1590 2200 1410 2710 730 2820 620 3140 330			67	
39 58	463 3400 90 3750 -150 4010 -360 4400 -540 4870 -760 5210 -850 5660 -890			26	
39 58	464 5970 -870 6340 -900 6340 -900 6690 -940 7180 -970 7680 -970 8060 -930			54	
39 58	465 8390 -900 8760 -860 9030 -830 9440 -830 9760 -86010110-101010390-1080			88	560
39 58	46610790-118011610-131012630-143013450-148014270-156014890-162016570-1760			13	
39 58	491811026 1400 45-2380	1700 2030 1910 1580 2150 1570 2320 1200		52	
39 58	492 2520 920 2770 670 2850 620 3020 460 3310 210 3570 20 3870 -280			9	
39 58	493 4110 -380 4470 -530 4780 -680 5090 -760 5430 -850 5670-1020 5920-1020			88	
39 58	494 6150-1060 6500-1070 6760-1030 7010-1070 7310-1080 7660 -960 7880 -960			36	
39 58	495 8200 -900 8530 -860 8950 -790 9400 -810 9820 -92010490-110011210-1230			40	
39 58	49612020-136012730-143013420-14901444C-157015450-167016570-176017550-1850			56	
39 58	49718920-195020130-203021530-212022830-223023990-230025650-2380			99	
39 58	501811104 1545 43-2920	1700 2010 1920 1570 2180 1460 2460 990		28	
39 58	502 2680 740 2820 590 3060 420 3520 200 3900 -100 4040 -290 4420 -410			13	434
39 58	503 4950 -660 5200 -830 5480-1140 5720-1160 6090-1200 6450-1250 6860-1190			93	
39 58	504 7280-1050 7710 -870 8160 -850 8790 -900 9460 -85010170 -80010860-1010			83	
39 58	50511790-125012770-140013710-151014840-162016160-174017300-183018410-1900			51	
39 58	50620220-205021950-217023450-228025000-237026630-246028140-254029880-2670			85	
39 58	50731360-271032520-280033610-286034700-2920			9	
39 58	521811117 1330 48-2650	1280 1920 1550 1960 1690 1980 1700 2030		93	
39 58	522 1810 1730 1920 1580 2030 1560 2140 1650 2210 1290 2360 1080 2510 910			79	
39 58	523 2530 920 2820 760 3110 490 3500 140 3690 -200 3980 -320 4480 -520			53	
39 58	524 4850 -720 5230 -990 5670-1170 6090-1180 6560-1110 7080-1090 7780-1090			35	
39 58	525 8290-1080 8830-1060 9410-1040 9980 -97010690 -89011290 -94012040-1090			99	680
39 58	52612470-119013310-137014250-149015100-159016250-170017350-179018880-1920			77	
39 58	52720820-208022020-217022850-222024140-231025380-239026740-246027880-2530			4	
39 58	52829170-259030380-2650			82	
39 58	551811130 1100 43-2540	1700 2020 1800 1760 1940 1570 2140 1530		87	

(Continued)

(Sheet 1 of 61)

Table B1. (Continued)

39 58	552 2190 1300 2500 960 2570 900 2700 810 2800 770 3120 580 3340 230	58
39 58	553 3630 -40 4010 -120 4360 -210 4660 -360 4980 -600 5420 -940 5980-1090	39
39 58	554 6410-1070 6900-1080 7500-1070 8140-1110 8700-1130 9220-1160 9880-1120	99
39 58	55510520 -99011130 -89011710 -93012410-108013240-127013950-140014890-1540	70
39 58	55615950-166017080-178018150-188019500-199020690-208021880-215023200-2250	96
39 58	55724520-234025730-240026850-246027910-2540	73 685
39 58	571811216 1000 44-2626 1705 2010 1867 1640 2069 1567 2148 1554	51
39 58	572 2192 1299 2380 1040 2671 862 2916 776 3069 624 3320 520 3724 334	34
39 58	573 4043 -97 4163 -317 4464 -394 4779 -515 5179 -737 5554 -943 5904-1020	20
39 58	574 6306-1049 6665-1045 7068-1042 7402-1040 7900-1073 8432-1120 9008-1195	90
39 58	575 8621-118410336-103911079 -92111842 -98912637-113713463-130914385-1457	87
39 58	57615220-157616244-169517182-180518230-188119718-200121079-211822557-2218	88
39 58	57723911-230025206-237826374-245228463-256229561-2626	6
39 58	581820105 1200 48-2814 1571 1964 1706 2004 1772 1859 1845 1682	1
39 58	582 1946 1557 2049 1571 2138 1559 2193 1337 2263 1184 2441 1001 2566 916	82
39 58	583 2917 781 3297 599 3721 358 4092 -5 4532 -409 4921 -468 5406 -724	23 482
39 58	584 5788 -893 6219 -992 6578-1001 7048-1024 7534-1062 8103-1106 8654-1174	27
39 58	585 9173-1189 9828-112510443-106811405-104711729-105812358-111612814-1174	25
39 58	58613408-125814188-138015093-150716084-163917052-176218230-187619499-1982	63
39 58	58720698-208121949-217023267-225924932-235326709-246228171-254029678-2628	78
39 58	58831286-270932877-2814	83
39 58	591820120 1330 45-2647 1702 2011 1819 1711 1967 1569 2121 1593	73
39 58	592 2167 1445 2199 1284 2331 1075 2543 910 2711 854 2949 740 3158 466	63
39 58	593 3483 420 3671 287 3962 -42 4301 -266 4926 -548 5444 -780 6146 -983	39
39 58	594 6846-1183 7331-1058 7906-1125 8557-1222 9224-1196 9800-120310377-1087	13
39 58	59511015-107811573-109912283-114313165-127113956-138814724-149515654-1609	82 546
39 58	59616677-173917782-185718886-196020074-205921180-212822319-222723586-2291	58
39 58	59724831-236925894-242427188-250328243-254929437-262330047-2647	94
39 58	611820128 1240 51-2859CV.0450 D01 1701 2011 1824 1715 1960 1556 2085 1575	68
39 58	612 2139 1570 2192 1325 2352 1090 2622 894 2858 810 3102 503 3434 365	42
39 58	613 3877 233 4230 -128 4397 -257 4681 -305 5070 -507 5560 -705 5983 -918	44
39 58	614 6418 -958 6873 -860 7517-1007 7986 -998 8485-1009 8881-1140 9358-1166	90
39 58	615 9944-114210461-113810935-108411517-107712097-110912677-116413233-1246	24
39 58	61614165-138915081-152115866-163316867-175717954-185918955-196920209-2051	28
39 58	61721466-214822651-223823866-232124974-237226082-243627199-252128213-2573	17
39 58	61829258-261030288-269031308-273832551-281133616-2859	6 471
39 58	621820209 845 40-2785CV.12S08 1709 2019 1872 1645 2048 1575 2133 1610	46
39 58	622 2211 1310 2446 999 2563 922 2615 899 3054 633 3487 342 3924 109	6
39 58	623 4139 -153 4481 -286 4964 -486 5435 -641 5861 -796 6333 -870 6797 -921	89
39 58	624 7274 -979 7822-1033 8459-1102 9067-1136 9772-112010619-106411405-1062	90
39 58	62512339-115213278-127114371-142215731-159617033-174918668-191220134-2053	10
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39 58	62732772-2785	57
39 58	631820216 1330 38-2570 1710 2020 1881 1629 2071 1575 2149 1577	65
39 58	632 2220 1299 2425 1014 2646 875 2858 803 3198 449 3586 377 3971 146	73
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Table Bl. (Continued)

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39 58	742 2022 1582 2127 1634 2189 1392 2373 1100 2490 975 2493 980 2933 672	68	
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Table B1. (Continued)

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39 58	843 5346 -706 6073 -949 6804-1071 7584-1094 8390-1087 9106-1079 9823-1083	91
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Table B1. (Continued)

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39 58	91714047-149014618-155715081-160015720-167116191-172116733-177617553-1848	39	
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39 58	923 4566 -532 4909 -715 5314 -756 5555 -624 5834 -490 6197 -501 6628 -684	84	
39 58	924 7015 -854 7532-1003 8081-1050 8566-1089 9098-1103	54	
39 58	931821016 1640 42-2684	1166 2011 1689 2026 2232 1325 2515 972	2
39 58	932 2889 821 3288 430 3573 109 3743 -83 3862 -259 3957 -421 4229 -471	42	
39 58	933 4558 -561 4855 -646 5230 -746 5443 -716 5662 -584 5932 -478 6509 -606	10	
39 58	934 7212 -917 7959-1037 9105-110310064-112411131-118911982-125813561-1427	59	
39 58	93514387-153215420-164216506-175517472-184318562-193519851-203821122-2123	21	
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39 58	941821017 1155 25-1152	1166 2011 1654 2039 1689 2026 1829 1707	23 302
39 58	942 2133 1610 2225 1316 2232 1325 2425 1044 2525 933 2773 881 3118 548	25	
39 58	943 3439 157 3751 -311 4154 -601 4554 -438 4723 -386 5081 -506 5467 -583	65	
39 58	944 6062 -529 6907 -823 7597-1010 8157-1066 8852-1097 9529-111310464-1152	13	
39 58	951821019 1130 25-1110	1654 2039 1829 1707 2133 1610 2225 1316	9
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39 58	963 4124 -502 4449 -462 4971 -352 5158 -428 5693 -523 6194 -587 6989 -869	98 522	
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Table B1. (Continued)

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Table B1. (Continued)

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Table B1. (Continued)

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39 58 1191830725 1123 30-2670001	1592 1966 1707 2033 1920 1637 2128 1677	30	
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39 58 1213 6233 -787 7243-1169 8058-1284 8827-1417 9735-143310603-141611684-1409		71	
39 58 121412927-133313932-136015472-145717154-166618729-186020245-203521725-2166		19	
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39 58 1222 2303 1302 2451 1133 2720 917 2752 898 2927 703 3092 587 3725 -169		5	
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39 58 122520554-206621955-218523565-231825126-241626518-248727952-256029461-2645		45	
39 58 122630759-270732198-277533764-2854		81	
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Table B1. (Continued)

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39 58 1615 8996-1254 9642-128810463-129711404-132212450-139613495-147414395-1567		66
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39 62	84 6020-1120 6420-1060 7020-1060 7320 -940 7620 -790 8020 -770 8820 -890	92			
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39 62	103 3230 260 3430 10 4030 -480 4630 -930 4830-1030 5230-1100 5830-1180	61			
39 62	104 6230-1180 6830-1130 7430-1140 7830-1070 8230 -930 8430 -830 8830 -780	76			
39 62	105 9430 -750 9830 -93010630-108010830-128011630-136012630-147013430-1500	30			
39 62	10614230-153014630-157015430-160016030-167017030-173017830-182018630-1880	99			
39 62	10719230-194019830-197020030-2020	58			
39 62	121810325 1555 43-22300012	1180 2190 1330 1960 1580 1910 1750 2100	26		
39 62	122 1850 1980 2010 1680 2110 1790 2240 1160 2490 950 2730 820 2920 700	94			
39 62	123 3230 420 3790 -40 4190 -460 4790 -680 5190 -830 5590 -860 5990-1000	3			
39 62	124 6390-1080 6990-1140 7790-1110 7990 -890 8990 -770 9390 -720 9590 -800	8			
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Table B1. (Continued)

39 62	12614590-155015990-164016590-168017190-176017990-183019190-191019790-1980	75	
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39 62	141810406 1030 43-2170D012 1180 2180 1430 1940 1580 1920 1790 2120	98	
39 62	142 2000 1680 2120 1790 2250 1140 2460 960 2640 870 2740 810 3350 190	53	
39 62	143 3550 -80 3950 -370 4250 -610 4650 -730 4850 -770 5250 -810 5650 -910	77	
39 62	144 6250 -970 6450-1030 7050-1070 7650-1050 8050 -880 8650 -670 9050 -840	93	
39 62	145 9650 -970 9850-108010650-124011250-130012050-140013050-147013650-1510	62	
39 62	14614450-156015050-160015850-165016650-172017450-177018050-184018650-1900	21	
39 62	14719650-197020250-204021050-210021850-2170	49	
39 62	151810415 1245 38-2180D010 1180 2190 1450 1920 1730 2090 1790 2110	32	576
39 62	152 1910 1850 2000 1680 2090 1860 2220 1200 2440 970 2650 840 2940 530	85	
39 62	153 3270 270 3570 -20 3970 -280 4170 -470 4670 -750 5070 -870 5570 -980	23	
39 62	154 6070-1040 7070-1170 7670 -870 8270 -790 8470 -740 9470 -89010470-1200	82	
39 62	15511270-131012170-143012870-147014470-155015270-163015870-166016670-1760	46	
39 62	15618070-187018670-194019270-200019870-204020470-208021670-2180	37	
39 62	171810427 1400 38-2240D03 1180 2190 1420 1930 1640 2070 1740 2120	32	
39 62	172 1970 1680 2070 1860 2210 1200 2440 960 2630 820 2780 630 2900 520	43	
39 62	173 3300 200 3700 -10 3800 -220 4200 -540 4500 -720 4800 -810 5200 -910	85	
39 62	174 5600 -990 6400-1030 7500-1000 7800 -730 8400 -66010400-120011600-1350	12	
39 62	17512200-140013200-147014200-153014800-157015600-162016200-168017200-1750	36	481
39 62	17618200-186019000-194019800-202021600-216022200-221022600-2240	4	
39 62	191810511 1300 55-2140GVE D06 1180 2180 1420 1940 1700 2090 1770 2120	66	
39 62	192 1840 2000 1990 1670 2090 1850 2220 1210 2500 930 2570 870 2770 740	94	
39 62	193 2900 540 3130 460 3180 410 3380 190 3580 90 3740 -60 3880 -280	22	
39 62	194 4080 -370 4230 -490 4280 -540 4380 -610 4580 -740 4780 -800 4980 -860	16	
39 62	195 5180 -960 5280-1020 5480-1050 5880-1120 6580-1070 6930-1030 7380 -940	46	
39 62	196 7380 -860 7480 -830 7480 -710 7580 -620 7880 -540 8580 -670 9180 -820	62	
39 62	197 9380 -900 9580 -970 9780-103010030-112010380-119010780-125011230-1320	30	
39 62	19812280-141013230-147014730-156015580-164016580-171017680-181018880-1920	67	
39 62	19919780-200021580-2140	95	502
39 62	211810526 1400 43-2200D05 1700 2080 1780 2130 1860 1940 1910 1850	46	
39 62	212 2020 1680 2090 1850 2220 1230 2380 1020 2500 810 2740 750 2940 660	4	
39 62	213 3090 530 3290 410 3580 220 3660 110 3840 -90 4340 -360 4440 -630	77	
39 62	214 4560 -870 4840 -980 5140-1070 5760-1130 6240-1100 6540-1070 6740 -900	78	
39 62	215 7040 -550 7390 -470 8040 -590 8640 -810 9090 -960 9540-108010240-1200	78	
39 62	21610740-127011540-135012840-144014540-155015540-163016940-175018140-1850	2	
39 62	21719440-197020140-202021540-214022340-2200	60	
39 62	231810609 1245 53-2250CVS0.1 1190 2190 1270 2030 1450 1940 1700 2090	88	
39 62	232 1800 2110 1870 1920 2010 1790 2090 1860 2220 1250 2510 900 2670 760	16	
39 62	233 2870 650 3080 380 3080 320 3180 260 3280 190 3330 160 3480 50	25	474
39 62	234 3590 -90 3860 -450 4010 -540 4250 -630 4420 -740 4530 -850 4720 -970	66	
39 62	235 4930-1050 5300-1170 5760-1190 5940-1180 6130-1150 6320-1110 6550 -920	21	
39 62	236 6680 -770 7000 -570 7590 -650 8170 -800 8750 -940 9920-120010690-1300	31	
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39 62	23817390-180018130-187019020-192019830-199021390-211022460-219023250-2250	24	
39 62	251810622 1300 60-3060DSB5 CHS1.0 1700 2070 2000 1680 2100 1830 2230 1200	32	
39 62	252 2380 1020 2500 910 2660 790 2790 630 2990 400 3520 -70 3670 -170	14	
39 62	253 3990 -490 4290 -710 4650 -940 4950-1040 5140-1110 5320-1150 5580-1170	99	

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39 62	254 6010-1120 6140-1100 6340 -950 6460 -770 6680 -590 6910 -580 7220 -640	79	
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39 62	25610620-130011050-134011560-137011990-140012580-143013210-148014120-1530	51	
39 62	25715030-160015890-167015890-167017390-180018270-187019600-197020740-2070	49	
39 62	25821860-215023080-223024560-233025760-241027130-249028290-257029200-2620	75	
39 62	25930190-266031240-273032330-278033680-286034630-291036120-300037120-3060	71	
39 62	271810701 1200 59-2360DB1 08 1690 2070 1760 2140 1840 2010 1940 1750	44	
39 62	272 2000 1670 2060 1770 2100 1850 2160 1700 2230 1210 2340 1080 2500 910	95	
39 62	273 2890 560 3100 410 3550 10 3740 -240 3780 -320 4100 -460 4270 -660	83	
39 62	274 4570 -840 4790 -960 5040-1090 5260-1130 5680-1170 5870-1150 6000-1070	70	
39 62	275 6260 -900 6390 -800 6590 -710 6790 -690 7180 -690 7480 -670 7800 -680	1	
39 62	276 8090 -730 8490 -830 8790 -910 9100-1010 9560-111010120-122010620-1280	68	607
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39 62	27815920-166016550-171017260-177017870-182019110-192019790-197020560-2030	95	
39 62	27921350-209022390-217023080-222023830-228024400-231025250-2360	23	
39 62	291810717 1200 46-3210 1580 1910 1770 2150 1990 1690 2110 1850	51	
39 62	292 2170 1660 2240 1220 2580 830 2760 690 2910 580 3090 330 3210 190	8	
39 62	293 3470 -80 3830 -470 4110 -600 4460 -790 4800-1020 5260-1160 5770-1100	26	
39 62	294 6310 -840 6890 -710 7450 -640 7940 -730 9310-1090 9970-119010820-1310	57	
39 62	29512410-141013790-150015340-161016980-175018490-187019820-198021340-2100	80	
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39 62	311810727 1100 60-2990DB5 05 1450 1920 1590 1910 1700 2070 1780 2130	41	
39 62	312 1860 1950 1950 1740 2050 1710 2110 1800 2170 1690 2220 1230 2420 980	81	
39 62	313 2500 920 2690 760 2790 630 2960 450 3260 120 3510 -150 3820 -390	22	
39 62	314 4040 -560 4310 -760 4610 -860 4920-1050 5250-1130 5570-1110 5830-1030	78	
39 62	315 6170 -890 6500 -750 6720 -650 7020 -610 7320 -670 7600 -730 7800 -780	91	
39 62	316 8490 -910 8870 -990 9150-1070 9500-1130 9810-118010200-125010930-1320	77	
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39 62	321810804 1200 60-2340DB12 1550 1910 1700 2060 1960 1690 2010 1670	6	571
39 62	322 2090 1820 2150 1650 2210 1220 2460 900 2530 890 2650 770 2690 620	95	
39 62	323 2770 640 2870 500 2990 420 3050 410 3330 170 3530 -30 3850 -370	10	
39 62	324 4010 -440 4250 -590 4470 -750 4780 -930 4930-1010 5230-1090 5420-1100	75	
39 62	325 5710-1030 5860 -970 6010 -890 6210 -780 6470 -620 6770 -560 7200 -630	22	
39 62	326 7460 -690 7920 -790 8150 -850 8630 -950 8970-1030 9440-1130 9800-1190	74	
39 62	32710440-128011400-134012140-139012580-143013130-146014070-152014560-1540	21	
39 62	32815100-160015710-164016320-169016990-175017750-182018430-187019300-1940	52	
39 62	32919840-199020430-203021000-208022230-216023140-222023930-228024930-2340	46	
39 62	341810818 1400 55-3020 1640 2000 1710 2090 2000 1680 2140 1750	36	
39 62	342 2290 1120 2500 920 2690 770 2710 580 2950 400 3240 180 3330 100	13	444
39 62	343 3330 90 3530 -80 3650 -170 3840 -320 4100 -530 4390 -710 4740-1000	65	
39 62	344 5160-1030 5530-1000 5970 -790 6110 -620 6330 -540 6720 -590 6940 -640	44	
39 62	345 7320 -710 7720 -770 8120 -830 8490 -920 8990-1030 9420-1120 9880-1200	96	
39 62	34610310-126011290-133012200-138013160-144014050-151015130-159016480-1700	47	
39 62	34717760-181018950-189020140-200021510-210022790-218024070-228025240-2350	81	
39 62	34826670-244028050-251029400-260030670-267031720-272033060-281034380-2880	56	

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Table B1. (Continued)

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Table B1. (Continued)

39 62	444 5480 -780 5770 -820 6060 -820 6420 -720 6780 -650 7190 -590 7620 -600	41	
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39 62	44720870-209022150-218023520-226023900-228023930-229025080-236026380-2450	23	
39 62	44827780-251029080-260030480-267031860-275032950-280034330-287035450-2950	76	
39 62	461811016 1700 44-2420 1200 2130 1640 1950 1720 2060 1990 1700	23	430
39 62	462 2140 1740 2230 1250 2400 980 2940 500 3350 110 3830 -170 4170 -390	43	
39 62	463 4590 -540 5010 -720 5450 -780 5910 -830 6380 -900 6700 -940 7040 -960	59	
39 62	464 7450-1000 7740-1060 8060 -930 8420 -970 8750 -840 9470 -78010150 -980	6	
39 62	46510870-121011660-133012290-141013590-151014540-161015220-164015840-1700	28	
39 62	46616830-178016890-178017780-185018950-195020220-204020670-209021640-2140	6	
39 62	46722290-219023580-228024910-236025500-239025990-2420	35	
39 62	491811026 1530 46-2840 1720 2080 1870 1930 2020 1700 2110 1850	34	
39 62	492 2190 1580 2230 1280 2430 960 2710 560 2810 440 3300 150 3690 -100	77	
39 62	493 4030 -350 4390 -490 4780 -760 5180 -950 5460-1000 5780-1050 6120 -980	38	
39 62	494 6540-1060 6860-1010 7280 -960 7660 -950 8010 -910 8260 -870 8690 -770	9	335
39 62	495 9150 -730 9500 -82010240-104010930-120011560-131012330-142013390-1500	36	
39 62	49614650-160015530-166017470-183019420-199020960-209022650-220023900-2280	54	
39 62	49725590-240027160-246028590-258029980-264031160-270032460-278033620-2840	84	
39 62	501811104 1500 41-2980 1720 2080 1920 1830 2030 1690 2100 1860	19	
39 62	502 2190 1580 2230 1270 2510 810 2920 470 3000 410 3390 180 3770 -110	22	
39 62	503 4030 -320 4400 -480 4730 -830 4940-1000 5180 -980 5620-1020 6040-1010	95	
39 62	504 6440-1090 7100-1040 7810-1050 8410 -990 9130 -92010020 -80011130-1060	4	
39 62	50512370-133013540-150014970-163016550-177018540-193020050-205021490-2140	91	
39 62	50623190-225024670-234026770-246028520-256030110-266031380-272032540-2800	11	
39 62	50733940-285035730-2980	60	476
39 62	521811117 1415 50-2730 1510 1910 1720 2080 1790 2110 1880 1920	36	
39 62	522 2010 1670 2100 1870 2170 1660 2180 1240 2340 990 2510 830 2520 840	93	
39 62	523 2810 670 3100 500 3500 200 3790 -220 4030 -280 4520 -520 4800 -740	70	
39 62	524 5050 -990 5050 -990 5280-1070 5530-1120 5870-1180 6260-1250 6710-1350	65	
39 62	525 7050-1310 7480-1280 8090-1180 8730-1080 9370-107010020 -95010720 -870	55	
39 62	52611600 -98012550-121013400-138013940-145014640-154015550-163016550-1740	50	
39 62	52718240-188019800-201021300-212022640-221023850-230025170-238026520-2460	99	
39 62	52827540-252028830-259030310-266031530-2730	36	
39 62	551811130 1200 43-2690 1720 2090 1800 2120 1920 1860 2010 1680	36	
39 62	552 2110 1880 2170 1670 2200 1210 2380 970 2560 810 2810 650 2960 560	63	603
39 62	553 3260 230 3830 -110 4370 -250 4800 -560 4990 -860 5270-1070 5700-1180	1	
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39 62	571811216 1100 43-2696 1717 2070 1811 2083 2012 1672 2106 1846	50	
39 62	572 2175 1633 2196 1185 2455 898 2732 781 2977 700 3209 560 3607 334	12	
39 62	573 3917 -10 4140 -339 4352 -399 4698 -551 5022 -737 5401 -965 5823-1094	44	
39 62	574 6513-1189 6947-1189 7471-1171 8037-1171 8702-1207 9231-119410194-1014	43	
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39 62	57617459-182918865-195720428-207921950-217123350-226024629-234625876-2422	63	
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39 62	581820105	1300 46-2812	1586 1907 1704 2060 1838 2027 1905 1852	86	
39 62	582 1974	1726 2057 1744 2116 1848 2163 1715 2189 1236 2329 1018 2476 887	31		
39 62	583 2494	855 2709 801 3063 613 3518 256 3913 -38 4301 -385 4736 -501	56		
39 62	584 5008	-644 5442 -882 5831-1028 6403-1132 6996-1161 7910-1189 8588-1231	57		
39 62	585 9153-121010007-109110773-104311356-106012066-111912674-116713522-1286	12			
39 62	58614295-139915306-153416278-167217711-184319087-196120732-209022500-2208	62			
39 62	58724125-230925686-240027155-249328551-258730009-265731582-274033044-2812	85			
39 62	591820120	59 49-2698 1700 2039 1792 2057 1954 1693 1999 1649	30	540	
39 62	592 2057 1722 2095 1817 2148 1684 2186 1151 2361 914 2562 768 2772 729	1			
39 62	593 3004 532 3292 378 3725 108 4149 -191 4606 -356 5003 -600 5333 -818	20			
39 62	594 5700 -991 6218-1145 6826-1189 7567-1188 8114-1248 8707-1208 9363-1146	72			
39 62	595 9969-106510735-104411373-106411883-109112419-116212947-122413515-1288	10			
39 62	59614090-137615015-150115861-162816731-172717864-187319000-196820173-2061	22			
39 62	59721401-212922605-221723571-227424563-235725834-243026770-247328044-2551	3			
39 62	59828941-259230014-264931009-2698	15			
39 62	611820128 1210 46-2893	1717 2084 1824 2058 1995 1691 2104 1731	78		
39 62	612 2162 1691 2192 1204 2437 920 2658 814 2897 669 3135 307 3654 208	14			
39 62	613 3991 -39 4605 -367 5013 -532 5514 -817 6025 -985 6526-1069 6986-1107	93	328		
39 62	614 7669-1150 8277-1171 8865-1176 9360-116510063-114310713-108411325-1056	79			
39 62	61511919-108612449-114213046-121713923-133614740-146315636-159416734-1735	79			
39 62	61617965-187519117-197020508-209021698-216522885-223824054-231225294-2402	83			
39 62	61726595-247028106-255429492-263830829-270631925-276532985-283234130-2893	24			
39 62	621820209 845 47-2825CV0.1S13	1721 2093 1781 2150 1923 1827 2016 1684	44		
39 62	622 2114 1851 2161 1725 2209 1178 2500 879 2753 797 2829 746 3064 553	63			
39 62	623 3531 370 3930 96 4157 -264 4414 -318 4741 -444 5159 -582 5574 -797	94			
39 62	624 6007-1043 6502-1079 7040-1122 7509-1140 8113-1162 8721-1160 9415-1131	35			
39 62	62510256-107910971-104611764-109312536-118013356-127914505-143715578-1584	33			
39 62	62616669-172417604-182518701-194319988-204321329-213322628-221323843-2288	77	611		
39 62	62725052-237326279-244527488-251728614-258329568-263130687-268931940-2756	97			
39 62	62833161-2825	50			
39 62	631820216 1430 40-2711	1721 2088 1817 2101 2008 1682 2102 1864	36		
39 62	632 2171 1688 2210 1179 2402 952 2477 883 2751 785 3012 548 3497 347	50			
39 62	633 3954 125 4312 -374 4579 -366 4938 -538 5276 -681 5846 -918 6448-1065	48			
39 62	634 7026-1112 7641-1148 8259-1166 8942-1148 9910-107510859-104011795-1089	28			
39 62	63512902-123114195-140615626-159317108-177018434-189619973-202321375-2129	39			
39 62	63622741-222223983-230025221-238126577-244327889-251129191-260330362-2647	7			
39 62	63731492-2711	4			
39 62	651820302 1045 47-2793	1719 2088 1801 2099 2003 1691 2105 1832	75	434	
39 62	652 2167 1690 2192 1221 2413 967 2613 840 2902 612 3125 317 3493 124	64			
39 62	653 3875 6 4293 -19 4679 -140 5025 -315 5413 -488 5789 -647 6183 -878	45			
39 62	654 6605-1035 7237-1140 7886-1178 8545-1208 9129-1198 9736-118610338-1149	53			
39 62	65510957-111211564-110412042-111613077-120613886-132614682-144715664-1593	33			
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39 62	65833154-2793	83			
39 62	671820317 1435 42-2793D06	1575 1930 1682 2067 1778 2132 1849 2160	96		
39 62	672 1990 1697 2094 1859 2150 1725 2188 1234 2300 1049 2413 957 2822 613	93			
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Table Bl. (Continued)

39 62	674 7039-1143 7810-1176 8499-1188 9171-118810515-112210951-110411641-1117	85
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39 62	67729570-261830694-268532718-2793	94
39 62	691820324 1130 42-2741 1630 2004 1722 2095 1819 2068 1951 1757	67
39 62	692 2097 1828 2155 1733 2206 1206 2396 965 2473 935 2629 828 3060 502	17
39 62	693 3576 182 4077 -50 4643 -348 5099 -406 5620 -679 6109 -977 6685-1106	75
39 62	694 7383-1147 8047-1177 8717-1170 9533-115210217-112010830-108511354-1086	58
39 62	69512088-112912868-121414056-138315110-152016400-168517651-181719105-1950	51
39 62	69620519-206421771-215723020-223924338-230825563-239026963-246528274-2533	79 643
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Table B1. (Continued)

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Table B1. (Continued)

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39 62 1532 1954 1796 2117 1773 2180 1441 2402 1108 2479 748 2784 550 3087 230		0	
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39 62 1542 1836 2055 1971 1774 2118 1864 2191 1417 2405 1102 2492 743 2770 624		80	
39 62 1543 3061 134 3323 -136 3597 -278 3928 -373 4394 -594 4704 -583 5070 -462		77	
39 62 1544 5455 -457 5898 -576 6485 -734 6819 -839 7182 -942 7735-1039 8384-1166		25	
39 62 1545 9126-1275 9865-130710732-130911833-132912705-137513518-143814360-1515		84	
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39 62 1552 1836 2055 1971 1774 2118 1864 2191 1417 2405 1102 2492 743 2773 580		90	
39 62 1553 3042 201 3425 -166 3670 -269 4014 -364 4253 -574 4675 -601 5041 -375		65	
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39 62 155510605-130311622-131212794-137413753-144414623-153915500-163716364-1723		64	
39 62 155617246-180718501-191419391-200320693-211021664-216222613-222623645-2298		76	
39 62 155724990-238126005-243926940-250527940-255129198-261430326-267031437-2729		78	
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39 62 1562 1780 2161 1947 1803 2033 1758 2123 1856 2186 1434 2395 1111 2501 739		3	
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39 62 1564 4492 -544 4868 -363 5083 -410 5587 -580 6164 -736 6690 -853 7252 -950		53	
39 62 1565 8089-1115 8815-1230 9900-129310073-129410998-130212289-134713599-1437		42	
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39 62 1571840830 1330 32-2773	1696 2098 1800 2136 2003 1758 2109 1816	82	
39 62 1572 2177 1494 2399 1116 2543 680 2821 559 3330 -1 3570 5 4056 -153		28	
39 62 1573 4874 -333 5846 -666 6804 -901 7934-1109 9409-128110488-128811725-1313		52	
39 62 157413506-140914919-156616444-173417944-187619411-199021309-213322773-2241		18	337

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Table B1. (Continued)

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39 62 1583 4633 -380 5251 -352 5752 -635 6179 -803 6842 -935 7574-1037 8492-1193	84
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39 62 1591840910 900 34-2221 1687 2079 1810 2138 1929 1834 2055 1759	74
39 62 1592 2177 1458 2278 1282 2394 1116 2483 766 2607 734 2715 660 2948 300	21
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39 62 1601840920 1030 54-2766 1468 1924 1620 2009 1697 2082 1780 2161	22
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39 62 160932026-2766	35
39 62 1611841002 1300 51-2630 1673 2082 1785 2140 1863 1990 1953 1806	72
39 62 1612 2030 1795 2103 1886 2131 1800 2177 1465 2296 1280 2385 1098 2403 875	9
39 62 1613 2527 746 2577 706 2833 587 3152 386 3362 203 3718 -230 4066 -437	3
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39 62 1615 7443 -716 8170-1082 9097-1278 9523-1292 9852-129810679-131011601-1344	50
39 62 161612309-137413667-147514575-158014998-159716011-172417358-184117432-1850	43
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39 62 1621841007 1000 38-2217 1468 1924 1620 2009 1697 2082 1780 2161	53
39 62 1622 1969 1789 2033 1758 2123 1856 2187 1444 2368 1152 2599 754 2733 667	43
39 62 1623 3064 499 3539 40 3895 -420 4206 -572 4607 -636 4913 -651 5307 -761	25
39 62 1624 5718 -701 6026 -497 6410 -462 6875 -493 7377 -660 8061-1052 8519-1210	16
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39 62 1631841016 1230 49-2459 1609 1991 1674 2070 1737 2126 1786 2155	57
39 62 1632 1936 1811 2031 1762 2088 1798 2116 1793 2167 1487 2249 1346 2307 1270	24
39 62 1633 2438 1107 2492 1031 2727 797 3048 539 3486 36 3507 30 3882 -367	49
39 62 1634 4147 -491 4738 -703 5194 -793 5725 -832 6083 -872 6433 -769 6676 -820	52 395
39 62 1635 7103 -722 7689 -658 8004 -631 8447 -892 8766-1093 9362-126710026-1344	29
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39 62 163717352-184318198-190119144-201219871-207021023-215322068-221723092-2275	67
39 62 163824097-234524933-240025808-2459	3
39 62 1651841029 1450 47-2786 1697 2085 1747 2123 1793 2150 1894 1924	55
39 62 1652 2031 1762 2125 1788 2182 1466 2323 1254 2477 1032 2654 839 2922 650	8
39 62 1653 3009 599 3475 136 3795 -296 4189 -571 4552 -856 4900 -578 5038 -325	14
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Table B1. (Continued)

39 62	1655 8595-1087 9580-124210048-128111102-130712176-135413660-148115094-1625	17	
39 62	165616980-181917379-185518974-199820098-207921580-218122906-226224353-2351	16	364
39 62	165724674-237726050-244927410-253628858-260529500-263030711-269331858-2747	20	
39 62	165832553-2786	70	
39 62	1671841127 1320 62-2746 1527 1932 1599 1969 1650 2042 1715 2089	54	
39 62	1672 1776 2146 1880 1948 1943 1805 2002 1744 2059 1823 2116 1867 2140 1757	88	
39 62	1673 2173 1472 2300 1263 2361 1178 2491 998 2581 916 2628 815 2948 566	24	
39 62	1674 3048 451 3128 389 3349 220 3369 186 3595 -55 3746 -305 3984 -499	63	
39 62	1675 4176 -621 4409 -626 4610 -572 4821 -613 5089 -652 5324 -631 5520 -306	88	
39 62	1676 5741 -280 6069 -376 6921 -605 7314 -711 7902 -858 8955-1098 9583-1187	17	
39 62	167710093-123410730-127311454-132612356-142013271-148714014-153814785-1607	96	
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39 62	167923852-234324995-242326161-247427245-252328271-257329120-261329533-2634	18	
39 62	167A30550-269331716-2746	20	
39 62	1681841213 1508 31-2668 2121 1838 2178 1443 2434 1060 2892 575	13	
39 62	1682 3215 451 3226 456 3233 444 3390 88 3797 -332 4087 -629 4323 -662	80	
39 62	1683 4733 -300 5109 -424 6105 -584 6818 -651 7826 -846 8456 -999 9508-1151	83	
39 62	168411095-128712720-142213867-151315516-167917512-187019040-200021318-2154	17	
39 62	168523468-228825547-241827130-250827992-255329927-264430476-2668	37	
39188	31810120 1430 59-2270D011 DB5 0 1430 160 1350 380 1480 480 1350	2	
39188	32 560 1370 780 1430 990 1510 1110 1550 1250 1670 1320 1830 1450 1750	68	
39188	33 1620 1940 1720 2120 1790 2220 1830 2330 1870 2310 1990 2020 2060 1640	24	362
39188	34 2220 1280 2290 1140 2430 1000 2450 900 2730 450 3030 200 3150 80	83	
39188	35 3450 -590 3850 -720 3960 -830 4900 -990 5800-1000 6200 -880 6550 -650	11	
39188	36 6750 -630 7400 -830 8150-1020 8850-1220 9150-1290 9650-1500 9950-1620	25	
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39188	3920350-208020750-211021450-215021950-219022650-223023150-2270	88	
39188	51810204 1200 59-2280D05 1710 2130 1760 2190 1820 2320 1910 2170	93	
39188	52 1970 2020 2020 1650 2100 1500 2170 1310 2290 1130 2410 860 2480 730	0	
39188	53 2580 550 2740 370 2830 280 3090 40 3390 -300 3640 -650 3740 -760	19	
39188	54 3990 -840 4490 -870 4990 -920 5490 -960 6190 -990 6640 -920 6990 -820	26	452
39188	55 7290 -730 7690 -770 7990 -890 8290-1000 8690-1120 8990-1220 9290-1310	10	
39188	56 9390-1450 9740-1550 9990-159010190-153010790-149011290-146011490-1410	53	
39188	5712490-143013190-144013890-144014190-146014890-149015290-154015890-1600	41	
39188	5816290-164016890-171017390-178017890-186018490-189019090-197019690-2010	63	
39188	5920490-210021090-214021490-218022290-223022890-227023090-2280	29	
39188	71810217 1420 59-2380D09 1830 2330 1900 2210 1960 2090 1980 2030	24	
39188	72 2050 1640 2200 1320 2310 1130 2360 1150 2540 720 2740 450 2770 430	6	
39188	73 3070 90 3670 -330 3870 -720 4270 -780 4570 -900 4870 -960 5270 -830	71	
39188	74 5670 -820 6070 -870 6470 -840 6770 -690 7170 -650 7570 -790 7970 -870	15	
39188	75 8370-1030 8770-1130 9170-1250 9370-1310 9570-1400 9670-148010370-1480	53	365
39188	7611170-147011770-148011970-148012770-146013370-146013970-146014670-1490	97	
39188	7715270-154015370-158015970-163016370-168016670-174017170-180017770-1830	52	
39188	7817970-188018470-194019170-202019770-205020170-209020970-212021270-2170	37	
39188	7921770-220022170-223022770-225023370-228023870-232024770-2380	60	
39188	91810303 1100 55-2300D04 1500 1790 1740 2140 1830 2330 1910 2170	18	
39188	92 1980 2030 2060 1630 2130 1450 2300 1100 2420 920 2550 800 2730 630	37	

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Table B1. (Continued)

39188	93	3070	320	3230	180	3330	90	3430	-40	3530	-180	3630	-270	3830	-370	67
39188	94	3930	-480	4230	-700	4380	-800	4530	-870	4680	-960	4930	-1010	5130	-970	74
39188	95	5380	-1040	5780	-1060	5880	-1030	6230	-960	6480	-860	6530	-790	6830	-700	5
39188	96	7330	-680	7610	-760	8030	-890	8230	-1000	8560	-1100	9030	-1250	9430	-1340	32 479
39188	97	10130	-1430	11000	-1460	11930	-1440	12730	-1420	14130	-1460	14930	-1540	15540	-1600	18
39188	98	16430	-1690	17280	-1790	18180	-1870	19380	-1990	20030	-2060	20780	-2110	21780	-2190	87
39188	99	22130	-2200	23470	-2300											70
39188	101	810311	1030	46-2250	005			1740	2150	1790	2230	1830	2330	1900	2210	55
39188	102	1940	2120	1990	2020	2060	1620	2180	1340	2290	1100	2480	900	2710	680	1
39188	103	2820	590	2940	470	3070	350	3190	170	3400	0	3490	-110	3690	-370	6
39188	104	3890	-470	4010	-600	4240	-830	4570	-900	5040	-950	5590	-1050	6210	-870	24
39188	105	6590	-700	7190	-670	7690	-830	8040	-910	8370	-1010	8840	-1160	9340	-1260	79
39188	106	9790	-1350	10390	-1410	12390	-1390	13190	-1410	13840	-1450	14540	-1520	15590	-1620	36
39188	107	16890	-1760	17840	-1850	18990	-1950	19490	-2000	20290	-2050	21490	-2150	22990	-2250	28 404
39188	111	810319	1310	44-2290	007			1740	2130	1830	2330	1890	2230	1960	2080	83
39188	112	2010	1960	2040	1640	2150	1450	2210	1100	2460	840	2730	490	2880	400	11
39188	113	3130	290	3250	180	3470	20	3900	-200	4140	-460	4220	-700	4380	-830	17
39188	114	4720	-890	4990	-930	5640	-1010	6120	-860	6520	-610	7020	-670	7420	-770	64
39188	115	8080	-960	8520	-1070	8870	-1180	9420	-1290	10220	-1390	11220	-1410	11870	-1400	0
39188	116	13020	-1400	13870	-1450	14820	-1520	15770	-1640	16620	-1740	17420	-1810	18420	-1900	68
39188	117	19470	-1990	19820	-2030	20820	-2100	21620	-2160	23780	-2290					62
39188	121	810325	1400	40-2160				1930	2130	1990	2000	2130	1480	2310	1080	37
39188	122	2550	820	2770	640	2910	560	3210	350	3510	100	3810	-150	4210	-460	0
39188	123	4410	-710	4810	-870	5410	-910	6010	-930	6210	-900	6610	-700	6810	-650	40 382
39188	124	7210	-640	7810	-710	8410	-910	8610	-1010	8810	-1110	9210	-1200	9610	-1290	96
39188	125	10010	-1360	10610	-1380	11210	-1390	12010	-1380	12610	-1390	13410	-1420	14610	-1580	36
39188	126	15210	-1630	16210	-1700	17010	-1800	17410	-1830	18810	-1980	19410	-2010	21010	-2140	62
39188	127	21610	-2160													42
39188	131	810330	1200	47-2510				1830	2330	1920	2150	1980	1980	2050	1650	17
39188	132	2310	1080	2590	810	2850	730	3190	300	3600	-90	4000	-410	4200	-510	90
39188	133	4600	-750	4800	-890	5200	-940	5400	-930	5800	-860	6400	-530	7000	-600	82
39188	134	7400	-750	7800	-830	8000	-910	8200	-980	8800	-1130	9200	-1240	9800	-1300	84
39188	135	10200	-1350	10800	-1360	11200	-1360	11600	-1350	12700	-1370	13400	-1410	14200	-1490	59
39188	136	14600	-1530	15600	-1640	16200	-1700	17200	-1790	17800	-1850	18600	-1930	18800	-1960	81 649
39188	137	19700	-2020	20200	-2050	21000	-2120	21800	-2160	23200	-2270	24200	-2330	25600	-2440	40
39188	138	26600	-2510													84
39188	151	810415	1030	38-2400	006			1830	2420	1940	2100	1970	2030	2050	1660	76
39188	152	2300	1080	2600	790	2830	560	3120	370	3320	120	3620	-190	3820	-360	10
39188	153	4620	-540	4820	-840	5020	-900	5420	-820	5820	-740	6420	-760	6820	-670	29
39188	154	7620	-730	8420	-870	9020	-1120	9420	-1270	11020	-1350	12220	-1360	13420	-1440	49
39188	155	14020	-1470	14820	-1550	15820	-1640	16620	-1740	17220	-1800	18020	-1870	18620	-1930	13
39188	156	19420	-2000	20420	-2070	21020	-2110	213020	-2260	24220	-2340	25020	-2400			66
39188	161	810422	1400	37-2190	010			1830	2320	1940	2090	1970	2000	2050	1650	60
39188	162	2300	1090	2590	800	2710	590	3520	10	4020	-370	4320	-740	5120	-810	77 504
39188	163	5420	-810	5920	-740	6320	-840	6520	-950	6920	-970	7320	-940	7720	-750	81
39188	164	7920	-760	8520	-930	9320	-1200	9720	-1310	10520	-1330	11920	-1350	12920	-1380	67
39188	165	14120	-1470	14520	-1530	15120	-1600	15920	-1690	16520	-1750	17120	-1800	17520	-1840	23
39188	166	18120	-1900	18720	-1940	20520	-2080	21320	-2140	22120	-2190					10

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Table B1. (Continued)

39188	181810505	1420	43-2160D06	1680	2040	1830	2320	1950	2110	1980	2010	38					
39188	182	2000	1900	2080	1570	2310	1070	2680	660	2950	480	3290	210	3690	-20	56	
39188	183	3890	-290	4090	-420	4490	-510	4690	-620	5090	-680	5490	-630	5890	-750	13	
39188	184	6290	-850	6490-1080	7290-1080	7690	-820	8090	-770	8690	-940	9090-1130	84				
39188	185	9490-122010090-128010690-131012090-133013090-138013490-143013890-1500	50														
39188	18614490-154015290-163015890-169016990-181017290-184018290-193018890-1960	35	457														
39188	18719490-200020090-203020690-210021490-2160	62															
39188	201810518	1445	41-2240D09	1830	2330	1940	2120	2000	1970	2080	1570	21					
39188	202	2320	1050	2560	760	2710	660	2990	530	3200	290	3630	20	4030	-330	70	
39188	203	4230	-380	4530	-490	4730	-660	5130-1000	5330-1090	5730-1090	5930-1080	94					
39188	204	6180-1090	6830-1020	7230-1020	7330	-810	7730	-750	7930	-820	8330	-950	38				
39188	205	8930-1050	9430-1160	9780-122010330-126012230-134013230-141013930-1480	77												
39188	20614730-154015330-162016130-171017730-184019130-195019530-198020730-2080	5															
39188	20722530-219023130-2240	29															
39188	221810601	1415	51-2200D05	1830	2260	1940	2110	1980	1980	2070	1600	26					
39188	222	2240	1190	2310	1050	2580	770	2790	650	3010	640	3260	320	3530	40	66	488
39188	223	3800	-170	4100	-370	4300	-480	4600	-590	5000	-630	5300	-700	5500	-810	22	
39188	224	5600	-960	5800-1090	6000-1140	6300-1140	6500-1110	6800-1040	6900	-860	70						
39188	225	7000	-760	7100	-700	7400	-710	7600	-710	7800	-790	8100	-860	8400	-920	32	
39188	226	8600	-980	8800-1030	9000-1080	9200-1140	9400-1200	9800-123010200-1250	61								
39188	22711000-129011900-133012800-142014400-154015200-161015600-168016400-1760	46															
39188	22817800-189019000-197020400-205021600-214022600-2200	13															
39188	241810615	1300	59-2870D55	1750	2120	1790	2200	1840	2270	1930	2100	58					
39188	242	1990	1920	2070	1560	2190	1300	2300	1030	2470	830	2660	650	2910	650	80	
39188	243	3050	450	3180	340	3310	170	3510	-30	3650	-170	3810	-340	4070	-450	77	
39188	244	4440	-600	5060	-700	5330	-800	5590	-960	5720-1060	5990-1180	6250-1180	25	484			
39188	245	6490-1100	6730	-910	6990	-750	7180	-700	7340	-740	7690	-810	8050	-900	60		
39188	246	8490-1010	9100-1150	9560-1230	9960-126010420-126010960-128011700-1330	63											
39188	24712490-138013330-146014160-153014740-158015650-167016580-175017690-1850	52															
39188	24818660-192019830-200021400-210022690-220024350-231025350-237026380-2470	55															
39188	24927560-255029020-265030010-270031080-276031940-281033240-2870	0															
39188	271810702	1230	58-2970	1720	2100	1780	2190	1840	2300	1950	2040	14					
39188	272	2010	1840	2080	1540	2310	1020	2620	630	2640	640	2870	460	2890	470	29	
39188	273	3080	270	3550	80	3600	-40	3810	-170	4110	-300	4430	-560	4670	-680	1	
39188	274	4900	-750	5230	-910	5490-1000	5620-1020	5800-1160	6080-1150	6330-1000	65						
39188	275	6600	-790	6840	-690	7150	-730	7510	-850	7920	-920	8330-1050	8900-1150	39	378		
39188	276	9590-125010100-127010970-129011850-134012740-142013480-148014300-1560	36														
39188	27715000-161015970-173017110-182018260-192019600-200020900-208022110-2160	98															
39188	27823070-225024240-231025220-238026770-248027800-256028860-263029930-2700	76															
39188	27930910-276031230-280032420-285033590-291034720-2970	72															
39188	291810717	1200	46-2940	1600	1880	1860	2290	1990	1980	2070	1590	12					
39188	292	2290	1050	2570	640	2720	560	2930	520	3040	440	3120	350	3400	100	84	
39188	293	3670	-80	3980	-310	4310	-580	4530	-700	4810	-800	5170	-970	5630-1010	26		
39188	294	5960	-990	6230	-750	6500	-660	7060	-770	7650	-920	8530-1110	9190-1230	3			
39188	295	9940-125010230-127011360-134012730-142014010-154015400-167016770-1800	65														
39188	29618150-190019490-199020970-210022160-217023530-228024700-234024930-2370	30	502														
39188	29726190-247027130-255028370-260029750-271030960-278032480-287034480-2940	29															
39188	321810805	1200	57-3030	1660	1950	1850	2300	1980	2000	2100	1540	63					

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Table Bl. (Continued)

39188	322	2210	1270	2490	780	2680	660	2720	660	2780	560	2880	480	2990	410	4
39188	323	3110	320	3160	240	3360	60	3600	-200	3870	-380	4110	-470	4480	-600	45
39188	324	4900	-780	5230	-890	5590-1010	5820	-990	6100	-770	6360	-670	6740	-720		79
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39188	326	9670-124010050-126010450-128010820-130011690-135012630-142013550-1490														8
39188	327	14390-157015240-164016170-173017050-182018290-191019460-199020990-2080														69
39188	328	22360-220023770-229025150-240026420-249027800-257029160-267030530-2740														24
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39188	331	810810 1200 56-3050D01					1700	2070	1840	2290	1960	2040	2080	1560		87
39188	332	2240 1160 2530 690 2580 680 2630 680 2790 550 2960 450 3200 290														36
39188	333	3470 -50 3690 -360 3930 -430 4170 -530 4380 -560 4720 -690 4950 -800														86
39188	334	5270 -910 5600-1010 5870 -950 6090 -770 6270 -700 6430 -680 6640 -710														91
39188	335	6850 -760 7160 -840 7510 -920 7940-1010 8450-1120 8820-1180 9180-1210														90
39188	336	9570-1230 9990-126010800-129011660-135012560-141013430-148014310-1560														81
39188	337	15440-168016620-178017750-188018830-195020350-205021840-215023320-2250														26
39188	338	24690-235025950-245027060-252028380-261029920-271031280-280032490-2860														10
39188	339	33900-293035200-300036140-3050														52
39188	351	810821 1000 37-1180A024					1720	2100	1840	2300	1880	2240	1960	2020		4 563
39188	352	2070 1600 2150 1380 2220 1120 2300 960 2610 510 2770 520 2990 290														22
39188	353	3010 240 3140 190 3350 -20 3550 -190 3680 -300 3800 -380 3980 -370														70
39188	354	4250 -590 4490 -810 4750 -880 5030 -880 5330 -960 5590 -970 5870 -980														58
39188	355	6120 -860 6340 -750 6490 -710 6710 -700 7010 -740 7300 -800 7440 -850														17
39188	356	7910 -980 8170-1050 8460-1110 8710-1150 8950-1180														61
39188	371	810823 1200 35-1130A022					1720	2100	1840	2300	1880	2240	1960	2020		38
39188	372	2070 1600 2150 1380 2220 1120 2300 960 2580 700 2770 520 3140 190														62
39188	373	3320 60 3580 -130 3720 -370 4010 -440 4300 -510 4480 -610 4880 -810														6
39188	374	5310 -950 5500-1060 5780 -990 5940 -910 6110 -960 6350 -920 6520 -830														1
39188	375	6800 -780 7020 -730 7230 -710 7520 -740 7690 -790 7850 -860 8080 -930														13 348
39188	376	8380-1030 8610-1080 8900-1130														96
39188	381	810825 1200 57-2760					1660	2000	1750	2140	1840	2330	1930	2140		22
39188	382	2000 1920 2070 1600 2160 1380 2230 1120 2360 920 2620 630 2840 480														73
39188	383	3100 270 3460 -70 3720 -260 3980 -330 4330 -500 4570 -630 4600 -650														55
39188	384	4880 -760 4950 -790 5170 -890 5290 -960 5410-1010 5560 -970 5800-1000														32
39188	385	6050 -930 6230 -850 6530 -800 6780 -740 7120 -670 7430 -740 7790 -880														62
39188	386	8190-1000 8500-1080 9000-1160 9340-1200 9690-122010480-126011430-1310														31
39188	387	12120-136013160-146014190-155015230-165016300-176017560-187018580-1920														39
39188	388	19670-200020970-209022210-218023510-226024680-235025640-241026710-2490														66
39188	389	27860-257028770-263029860-271030880-2760														9 485
39188	391	810827 1300 45-1820					1660	2000	1750	2140	1840	2330	1930	2140		0
39188	392	2000 1920 2070 1600 2160 1380 2230 1120 2360 920 2480 760 2660 620														99
39188	393	3000 350 3330 70 3660 -270 4220 -480 4700 -530 5090 -870 5540 -970														21
39188	394	5910 -940 6220 -840 6540 -730 6810 -670 7190 -690 7410 -760 7570 -820														61
39188	395	7850 -910 8110 -990 8550-1090 8940-1150 9310-1190 9830-122010310-1250														52
39188	396	10870-128011380-131011800-134012270-137012910-143013270-147013700-1500														82
39188	397	14170-155014630-161015110-164015580-169016050-172017130-1820														50
39188	411	810908 1200 48-2750					1730	2150	1840	2300	1940	2090	2050	1640		4
39188	412	2170 1330 2210 1150 2300 1060 2390 1030 2550 1020 2930 670 3270 340														17
39188	413	3660 -170 3820 -370 4090 -510 4420 -730 4740 -870 5060 -990 5500 -900														88 474

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Table B1. (Continued)

39188	414 5730 -580 5910 -450 6220 -440 6510 -510 7010 -680 7390 -800 7570 -850	18
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39188	41613010-147013930-157015000-167016040-175017230-185018340-193019520-2000	27
39188	41720630-207021870-215023200-224024410-234025610-243027130-253028470-2630	37
39188	41829880-270030720-2750	32
39188	421810914 1030 57-2900 1730 2110 1830 2300 1930 2100 2020 1760	46
39188	422 2120 1470 2180 1280 2210 1150 2300 1060 2480 1020 2670 950 2680 980	81
39188	423 2300 860 2860 670 2870 650 3100 440 3220 310 3550 -50 3770 -250	83
39188	424 4020 -430 4190 -590 4520 -820 4970 -950 5210 -850 5310 -530 5450 -410	91
39188	425 5630 -370 5910 -420 6300 -550 6750 -690 7140 -790 7540 -890 7940 -980	70 557
39188	426 8410-1070 8910-1120 9410-1180 9860-121010620-127011460-133012210-1410	64
39188	42713150-148014090-159015090-168016100-176017180-185018300-192019370-1980	85
39188	42820720-209022060-217023170-224024250-233025480-242027030-253028300-2610	12
39188	42929540-268030950-275032440-284033640-2900	14
39188	431810920 1200 59-2900D55 1730 2100 1830 2300 1940 2070 2050 1670	11
39188	432 2160 1350 2310 1080 2450 1020 2630 1050 2790 820 2950 590 2980 520	75
39188	433 3190 300 3260 200 3400 100 3480 0 3530 -60 3660 -190 3830 -290	55
39188	434 4160 -490 4430 -620 4750 -690 5110 -690 5450 -590 5820 -520 6280 -520	83
39188	435 6650 -620 6940 -720 7260 -820 7670 -950 7950 -980 8260-1050 9180-1180	69
39188	43610170-124010880-128011290-131011630-134011950-138012360-141012670-1440	70 538
39188	43712970-147013550-151013980-157014090-158015090-167016100-176017180-1850	11
39188	43818300-192019370-197020720-208022060-217023170-223024250-232025480-2420	8
39188	43927030-252028300-261029540-267030950-275032440-283033640-2900	91
39188	441810928 1315 54-3000 1750 2120 1810 2230 1880 2210 1970 1960	29
39188	442 2070 1610 2170 1290 2300 1060 2490 1020 2600 1020 2880 580 3200 270	88
39188	443 3550 -90 3770 -270 4050 -410 4050 -410 4280 -600 4650 -720 5020 -760	42
39188	444 5330 -650 5690 -610 6090 -590 6450 -590 6820 -670 7180 -770 7570 -890	55
39188	445 8030-1010 8520-1100 8920-1150 9440-1190 9890-122010220-125010930-1320	88
39188	44611770-139012590-148013410-152014230-162015060-169016280-179017420-1860	11
39188	44718520-196019750-202020850-211022050-218023590-230025000-239026280-2480	16 439
39188	44827710-258028880-265030140-272030670-275031940-282033040-288034280-2950	87
39188	44935160-3000	53
39188	451811005 1530 59-3020D55 1830 2300 1930 2100 2210 1160 2640 1060	76
39188	452 2860 710 2890 500 3370 120 3490 10 3740 -200 4040 -370 4350 -610	63
39188	453 4590 -720 4900 -740 5120 -670 5690 -560 5940 -540 6260 -570 6490 -630	39
39188	454 6550 -640 6680 -670 6760 -700 7040 -770 7320 -860 7730 -960 7980-1020	49
39188	455 8230-1060 8560-1110 8830-1140 9300-1190 9710-122010480-128011080-1320	3
39188	45611450-135012430-144014010-160014720-166015720-175016480-180017250-1860	47
39188	45717870-190018750-196019560-200020330-206021060-211022100-218022900-2240	96
39188	45824070-233024860-238025870-246026610-250027050-255028000-260028850-2650	44 557
39188	45929780-270031070-277032330-283033410-290034550-295035700-3020	84
39188	461811016 1100 41-1400A025 1730 2110 1830 2260 1970 2020 2050 1590	42
39188	462 2190 1200 2350 1100 2610 870 2790 680 3030 440 3270 170 3520 -130	4
39188	463 3780 -190 3960 -320 4190 -690 4250 -720 4420 -860 4650 -960 4930-1050	50
39188	464 5040-1060 5180-1010 5510 -910 5800 -830 5850 -840 6290 -810 6870 -720	27
39188	465 7060 -710 7110 -730 7560 -720 7750 -760 7780 -780 8070 -880 8300 -950	75
39188	466 8810-1060 9140-1100 9520-1150 9870-119010300-123010610-125010790-1280	44
39188	46711280-135012000-1400	25

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Table B1. (Continued)

39188	471811017	1630	41-2370		1730	2110	1830	2260	1970	2020	2050	1590				32
39188	472	2190	1200	2350	1100	2470	1000	2610	870	2760	730	3130	340	3640	-140	43 426
39188	473	3980	-510	4320	-800	4720-1030	5080-1090	5410	-890	5710	-820	6230	-790			83
39188	474	5560	-740	7120	-650	7650	-720	8420	-940	9310-108010300-122011090-1290					56	
39188	47511840-137012500-145013540-155014540-164015400-171016430-180017300-1850															8
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39188	47724270-234025060-2370															98
39188	481811022	1400	59-2790		1720	2100	1830	2290	2000	1820	2150	1340				87
39188	482	2210	1180	2380	1100	2520	1000	2560	900	2680	760	2780	620	3070	360	59
39188	483	3400	120	3670	-180	3950	-410	4180	-610	4410	-830	4630	-930	4910-1000		31
39188	484	5190	-950	5570	-870	5870	-830	6200	-800	6540	-700	6800	-630	7030	-630	29
39188	485	7420	-720	7750	-810	8030	-880	8280	-940	8530	-990	8860-1040	9150-1070			59 559
39188	486	9350-1110	9630-1140	9820-116010000-118010390-123010820-128011370-1340												54
39188	48712090-142012860-150013580-157014300-163015240-172015960-177016860-1840															24
39188	48817670-189018790-195019870-203021020-213022030-219023320-228024530-2370															82
39188	48925840-246026860-253028050-262029250-268030270-274031230-2790															8
39188	501811103	1645	46-2010A011		1750	2120	1840	2280	1960	2020	2110	1480				94
39188	502	2200	1220	2340	1120	2470	1020	2530	830	2670	660	2930	500	3140	320	52
39188	503	3420	80	3630	-90	3980	-380	4280	-540	4610	-750	4870	-810	5120	-840	98
39188	504	5450	-870	5780	-890	6020	-900	6340	-900	6680	-910	7020	-910	7330	-900	94
39188	505	7860	-900	8310	-830	8630	-790	8840	-780	9130	-820	9720	-93010370-1090			46
39188	50611070-122011890-135012140-140012770-147013060-152013810-159014590-1660															36 588
39188	50715280-172015920-178016550-182017380-188018130-193018750-196019420-2010															6
39188	511811110	1530	45-2900		1830	2280	1960	2010	2030	1730	2150	1370				45
39188	512	2210	1190	2460	1030	2510	880	2680	680	2820	500	3250	210	3630	-150	17
39188	513	3970	-310	4300	-450	4560	-660	4830	-860	5110	-860	5380	-860	5770	-900	26
39188	514	6200	-900	6600	-900	7230	-900	7850	-860	8420	-780	9060	-830	9730	-970	67
39188	51510380-112011010-123011840-135013050-151014200-162015440-174016700-1830															49
39188	51617680-189019140-199020680-210022080-219023540-230024730-237026010-2470															75
39188	51727230-255028470-264029690-270030910-275032250-282033450-2900															41
39188	521811116	1300	46-2590		1710	2080	1830	2280	1920	2130	2010	1850				70
39188	522	2060	1570	2090	1230	2170	1050	2250	910	2640	350	2890	70	3140	-30	12 408
39188	523	3490	-90	3750	-100	3980	-160	4220	-220	4590	-360	4960	-570	5350	-760	47
39188	524	5760	-910	6120	-990	6600-1060	7110-1130	7530-1180	8040-1220	8590-1260						47
39188	525	9190-1250	9880-118010620-107010890-105011370-104011780-107012210-1130													74
39188	52613080-131013880-144015100-161016080-172017050-181018130-189019590-1990															96
39188	52720660-208021790-216023040-226024130-234025380-244026680-253027910-2590															72
39188	531811118	1615	43-2810		1710	2080	1830	2280	1920	2130	2010	1850				78
39188	532	2060	1570	2090	1230	2170	1050	2250	910	2360	730	2540	480	2800	230	29
39188	533	3070	-50	3370	-120	3610	-120	3910	-110	4310	-270	4760	-450	5200	-700	53
39188	534	5720	-910	6420-1040	7070-1120	7810-1210	8550-1250	9180-1240	9860-1170							87
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39188	53617850-186019170-196020700-208021980-217023350-228024790-238026080-2500															45
39188	53727530-259028880-266030370-273031600-2810															48
39188	541811123	1100	45-2940		1730	2080	1830	2280	1920	2120	1990	1920				98
39188	542	2040	1720	2070	1370	2110	1170	2230	940	2350	760	2430	620	2680	340	39
39188	543	3010	100	3240	-60	3600	-50	4030	-200	4430	-340	5010	-640	5360	-790	7
39188	544	5780	-930	6150-1000	6740-1090	7350-1170	8010-1230	8590-1250	9180-1250							25

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Table B1. (Continued)

39188	545 9840-119010560-108011400-104012300-116013190-133014410-154015490-1680	84	
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39188	54726670-253028170-263029650-271031340-281032740-288034220-2940	84	
39188	551811127 930 46-2130 1720 2110 1750 2140 1790 2210 1830 2260	82	546
39188	552 1880 2210 1920 2140 1960 2020 1990 1900 2020 1790 2050 1530 2090 1320	41	
39188	553 2120 1170 2250 880 2450 630 2850 260 3120 30 3550 -180 3790 -210	42	
39188	554 4070 -300 4520 -420 4910 -460 5360 -660 5750 -820 6220 -980 6510-1050	28	
39188	555 6980-1130 7570-1210 8140-1280 8750-1330 9230-1340 9740-129010330-1190	58	
39188	55610980-106011540-102012110-109012650-118013310-130013920-142014500-1510	43	
39188	55715460-164016480-175017500-185018460-193019290-199020140-206020940-2130	45	
39188	561811207 1000 41-2776 1777 2199 1842 2263 1982 1922 2040 1694	32	
39188	562 2091 1295 2206 952 2437 709 2686 544 2904 414 2974 363 3203 150	76	
39188	563 3479 -231 3690 -506 3999 -553 4283 -306 4538 -321 5070 -517 5571 -754	48	
39188	564 6087 -981 6556-1191 7164-1214 7910-1276 8670-1362 9333-133210017-1170	34	447
39188	56510864 -99411573-101812333-114013223-130814086-145415578-165616933-1791	47	
39188	56618565-193920368-207921847-219123743-233925120-244026519-252228104-2616	75	
39188	56729489-269330949-2776	28	
39188	581820105 1400 40-2832 1827 2282 1917 2128 1998 1868 2047 1599	27	
39188	582 2097 1254 2199 961 2347 804 2379 771 2852 415 3290 -4 3470 -302	89	
39188	583 3623 -513 3811 -561 4257 -601 4877 -423 5440 -513 5901 -774 6301-1019	29	
39188	584 6825-1163 7325-1230 7954-1310 8639-1359 9240-1310 9839-123410572-1148	44	
39188	58511338-110212257-114413625-133615138-158617069-181118500-194719857-2044	86	
39188	58621686-216423257-228624926-240127046-255528763-265830120-272930983-2775	0	
39188	58732222-2832	52	477
39188	591820120 1500 41-2735DS1 1745 2107 1852 2261 1986 1951 2055 1667	34	
39188	592 2098 1332 2165 1064 2381 782 2608 603 2886 365 3113 108 3474 -286	71	
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Table B1. (Continued)

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Table B1. (Continued)

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39188	934 7546 -944 8229-1026 8993-1077 9785-111810854-120011773-129912848-1433	93	
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39188	93621711-219622852-228424057-237524978-243526036-249127363-256828311-2617	82	
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39188	974 4740 -686 4744 -686 4999 -599 5277 -481 5542 -394 5742 -372 6127 -461	62	
39188	975 6523 -578 6951 -762 7408 -971 8006-1130 8460-1183 9009-1204 9370-1193	42	
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Table B1. (Continued)

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39188	1054 9742-133410468-126711380-120612170-122413198-132214074-144015404-1616	27	
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39188	108515116-153816060-164117181-176018345-188419376-198520106-205821099-2139	58	
39188	108622057-222223076-231123838-236024822-243425583-248426449-254127505-2597	74	

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Table B1. (Continued)

39188 108728475-264129595-269530227-2713	56	
39188 1091830224 1400 38-2011MR 1758 2198 1898 2163 1999 1772 2094 1486	92	
39188 1092 2364 978 2654 703 2916 390 3166 51 3866 -512 4066 -546 4546 -702	65	
39188 1093 5166 -723 5566 -786 5863 -767 6355 -676 6847 -667 7372 -845 8192-1107	46	618
39188 1094 8816-1286 9603-139710456-139911145-134611605-130712556-126413606-1311	26	
39188 109514098-135914557-140814951-145615378-150515673-155415903-158316067-1618	71	
39188 109616493-165616953-171517937-182719085-195119709-201119709-2011	43	
39188 1101830303 1015 47-2238MR 1674 2038 1812 2250 1892 2238 1924 2082	93	
39188 1102 2069 1477 2152 1344 2235 1168 2502 879 2924 514 3524 -91 3724 -546	4	
39188 1103 4124 -676 4624 -581 5048 -578 5179 -583 5835 -488 6459 -588 7148 -778	33	
39188 1104 7870-1028 8591-1243 8821-1288 9116-1338 9576-138810297-138310822-1348	25	
39188 110511413-131312200-126812988-126813906-133814366-138814727-143815153-1488	6	
39188 110615547-153816039-158816400-163816728-168817122-173817581-178818073-1838	49	
39188 110718467-188818926-193819517-198819976-203820435-208820927-213821452-2188	23	373
39188 110822076-2238	84	
39188 1111830321 1300 35-2681GE 1674 2032 1812 2245 1924 2076 2069 1471	11	
39188 1112 2313 1042 2753 741 3159 297 3641 -432 4016 -730 4480 -620 5279 -661	10	
39188 1113 6070 -645 6802 -509 7543 -760 8324-1169 9150-140910232-149011155-1446	74	
39188 111412569-133513719-131614803-141316081-157017198-171618248-183919232-1957	0	
39188 111520193-205821182-215522105-222723298-232324226-238325178-245626187-2514	10	
39188 111627207-256828229-261329418-2681	73	
39188 1121830328 1000 42-2592 1728 2143 1811 2252 1889 2204 1966 1920	39	
39188 1122 2086 1443 2242 1176 2365 1041 2741 705 3189 302 3665 -315 3832 -688	57	
39188 1123 4101 -732 4567 -452 5067 -470 5805 -566 6542 -716 7182 -730 7925 -982	73	431
39188 1124 8745-1299 9469-147610085-154010861-154211658-151112316-147213008-1394	88	
39188 112513980-133814966-137115865-147416733-158917676-171718483-183219296-1929	64	
39188 112620257-204621210-213122137-221023004-227823883-234324760-241625703-2456	69	
39188 112726685-252327646-256928192-2592	50	
39188 1131830412 900 41-2696DS 1816 2258 1979 1861 2081 1470 2339 1091	30	
39188 1132 2398 1031 2723 758 3234 315 3693 -307 4036 -484 4407 -205 4899 -299	75	
39188 1133 5566 -482 6282 -698 7184 -938 8075-1177 8845-1364 9708-150510383-1630	81	
39188 113411295-156512201-144813231-133714484-136015609-145616871-163017959-1785	14	
39188 113519451-196319506-197520119-202220151-203420181-204020220-203820448-2072	12	
39188 113620480-207121796-218922677-226523913-236125115-243526156-250327539-2575	42	525
39188 113728613-262730001-2696	90	
39188 1141830506 800 35-2713CV-.05E 1795 2239 1834 2255 1889 2113 2085 1466	21	
39188 1142 2277 1155 2423 1012 2673 863 3142 388 3643 -148 3998 -315 4412 -454	52	
39188 1143 5046 -576 5666 -572 6334 -647 7113 -843 8023-1139 8789-1353 9831-1468	27	
39188 114410735-157111692-146812692-135713813-134615140-142316294-156117652-1748	29	
39188 114519027-191820350-205721731-219622955-227724140-238225536-245226861-2520	77	
39188 114628031-258229231-265830401-2713	77	
39188 1151830524 1200 41-2829 1681 2069 1860 2212 1986 1807 2127 1342	3	
39188 1152 2322 1129 2386 1049 2499 962 2734 821 3167 388 3670 -136 4154 -518	15	
39188 1153 4645 -569 5315 -374 5944 -530 6549 -729 7515-1032 8414-1267 9465-1434	30	421
39188 115410505-163311549-147113116-132714074-134614731-138915358-145316109-1540	81	
39188 115516731-162117516-173218008-178718833-188919225-192919782-199120597-2080	4	
39188 115621748-218422900-228024092-237825322-244426706-252127984-257329516-2656	25	
39188 115730821-272232370-2829	50	

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Table Bl. (Continued)

39188	1161830613	900	34-2682	1716	2122	1829	2249	1958	1959	2100	1419	91				
39188	1162	2355	1072	2418	1014	2876	710	3385	147	3796	-333	4187	-498	4758	-579	24
39188	1163	5310	-586	6154	-576	7055	-913	7775	-1161	8723	-1369	9585	-1480	10608	-1529	80
39188	1164	11759	-1429	12931	-1336	13857	-1358	15374	-1483	16720	-1644	18092	-1815	19336	-1963	44
39188	1165	20640	-2100	21988	-2211	23221	-2308	24708	-2409	26060	-2503	27199	-2547	28346	-2598	83
39188	1166	29260	-2650	30093	-2682											26 508
39188	1171830630	1020	35-2592	1637	1953	1761	2184	1887	2117	1995	1761	68				
39188	1172	2141	1311	2343	1077	2393	1041	2751	791	3300	260	3765	-352	4118	-512	72
39188	1173	4651	-594	5142	-651	5649	-481	6187	-631	6983	-956	7710	-1165	8663	-1367	54
39188	1174	9516	-1472	10447	-1544	11476	-1455	12374	-1361	13597	-1334	14635	-1406	15835	-1520	39
39188	1175	16881	-1656	18175	-1823	19354	-1964	20409	-2070	21632	-2186	22696	-2273	24154	-2384	27
39188	1176	25359	-2452	26509	-2520	27721	-2592									12
39188	1181830711	750	35-2763	1751	2180	1859	2197	1991	1780	2094	1432	34				
39188	1182	2278	1151	2402	1032	2747	802	3157	342	3486	-34	3928	-312	4341	-537	57
39188	1183	4877	-639	5258	-429	5773	-577	6823	-949	7600	-1166	8460	-1329	9572	-1509	53
39188	1184	10589	-1539	11696	-1423	13171	-1364	14378	-1384	15733	-1510	17055	-1694	18210	-1822	34 450
39188	1185	19536	-1972	220805	-2105	22073	-2223	23289	-2320	24638	-2420	26039	-2500	27549	-2585	11
39188	1186	28789	-2635	29920	-2700	31047	-2763									73
39188	1191830725	933	34-2719	1733	2148	1874	2177	2008	1719	2132	1331	56				
39188	1192	2343	1085	2426	1001	2627	884	3039	444	3730	-252	4250	-449	4785	-611	84
39188	1193	5297	-470	6046	-736	6920	-1001	7439	-1129	8469	-1335	9368	-1471	10476	-1544	5
39188	1194	11569	-1425	12736	-1350	13970	-1362	15332	-1475	16704	-1637	18001	-1802	19306	-1952	8
39188	1195	20530	-2072	221872	-2197	23181	-2305	24415	-2399	25906	-2487	27234	-2541	28381	-2604	36
39188	1196	29358	-2667	30471	-2719											60
39188	1201830808	915	30-2753	1814	2247	1913	2112	2044	1578	2200	1217	38				
39188	1202	2459	979	2955	599	3534	5	4099	-259	4988	-481	5781	-728	6587	-926	68 439
39188	1203	7500	-1156	8519	-1354	9780	-1555	10983	-1480	12153	-1369	13496	-1356	14928	-1432	42
39188	1204	16284	-1583	17572	-1756	18948	-1908	20463	-2077	21800	-2204	22939	-2295	24457	-2399	95
39188	1205	25825	-2482	27086	-2543	28385	-2606	29615	-2672	30931	-2753	2				
39188	1211830825	800	30-2516	1814	2247	1913	2112	2044	1578	2200	1217	94				
39188	1212	2368	1044	2744	759	3270	272	3851	-374	4463	-365	5121	-393	5910	-580	56
39188	1213	6738	-984	7677	-1215	8545	-1367	9362	-1484	10465	-1535	11417	-1464	12394	-1354	87
39188	1214	13539	-1351	14640	-1434	15907	-1538	17179	-1695	18403	-1853	19655	-1985	20940	-2128	60
39188	1215	22071	-2219	23280	-2308	24479	-2409	25798	-2479	26649	-2516	33				
39188	1221830906	800	33-2792	1678	1980	1830	2448	1966	2063	2081	1441	36				
39188	1222	2284	1131	2391	1038	2835	709	3326	203	3567	-165	3895	-201	4506	-282	40 545
39188	1223	5386	-469	6283	-779	7097	-1092	8097	-1320	9159	-1472	10260	-1531	11449	-1427	33
39188	1224	12622	-1359	13901	-1367	15197	-1471	16497	-1618	17767	-1782	19226	-1947	20623	-2092	7
39188	1225	22029	-2222	23317	-2323	24718	-2418	26077	-2503	27542	-2576	28838	-2645	30082	-2709	4
39188	1226	31429	-2792													0
39188	1231830918	810	35-2865	1678	1980	1830	2448	1966	2063	2081	1441	90				
39188	1232	2284	1131	2354	1059	2800	712	3312	271	3784	-334	4131	-489	4671	-598	79
39188	1233	5122	-556	5762	-488	6576	-853	7487	-1185	8487	-1344	9688	-1510	10723	-1492	1
39188	1234	11805	-1387	12727	-1349	14215	-1387	15719	-1541	17041	-1701	18458	-1868	19773	-2000	4
39188	1235	21231	-2143	22473	-2251	23739	-2349	25087	-2440	26522	-2528	27665	-2570	28879	-2641	96
39188	1236	30281	-2715	31446	-2787	32591	-2865									91 405
39188	1241831001	840	47-2722	1816	2272	1822	2261	1871	2271	1970	1902	27				
39188	1242	1999	1814	2066	1524	2080	1480	2132	1339	2238	1187	2283	1223	2520	969	38

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Table B1. (Continued)

39188	1243	2601	904	2967	619	3233	346	3387	239	3758	-192	4069	-645	4451	-658	73
39188	1244	5015	-501	5492	-487	6083	-511	6846	-649	7529	-1011	8389	-1198	9001	-1274	25
39188	1245	9535	-1274	10098	-1412	10622	-1487	11298	-1456	12275	-1369	12898	-1333	13605	-1328	8
39188	1246	14442	-1380	15022	-1437	15446	-1493	15981	-1555	16754	-1652	17675	-1768	18340	-1848	98
39188	1247	19115	-1945	21531	-2175	22498	-2250	23992	-2366	25679	-2471	26915	-2535	29487	-2673	7
39188	1248	30442	-2722													16
39188	1251	831005	740	24-2088				1816	2272	1871	2271	1999	1814	2066	1524	35
39188	1252	2238	1187	2384	1054	2910	602	3359	156	3906	-552	4642	-536	5522	-472	52 379
39188	1253	6474	-635	7294	-994	8246	-1272	9094	-1329	10175	-1439	11161	-1460	12487	-1359	50
39188	1254	13757	-1342	15090	-1444	16646	-1647	18086	-1822	19431	-1967	20665	-2088			70
39188	1261	831013	1400	41-2390				1816	2272	1871	2271	1999	1814	2066	1524	95
39188	1262	2238	1187	2364	1066	2519	942	2898	562	3318	197	3884	-608	4125	-710	5
39188	1263	4552	-634	5014	-415	5438	-416	6102	-513	6670	-613	7167	-827	7885	-1126	20
39188	1264	8551	-1290	9247	-1401	9962	-1452	10629	-1480	11248	-1435	11966	-1407	12638	-1343	79
39188	1265	13596	-1341	14367	-1404	15086	-1467	15819	-1578	16540	-1666	17176	-1723	18006	-1821	36
39188	1266	18671	-1888	19632	-1989	20377	-2061	21293	-2171	21890	-2227	22809	-2296	23538	-2360	43
39188	1267	23857	-2366	24518	-2390											26
39188	1271	831024	1230	43-2356				1816	2272	1871	2271	1999	1814	2066	1524	67 491
39188	1272	2238	1187	2348	1088	2488	979	2851	688	3214	378	3563	-27	3954	-658	71
39188	1273	4386	-308	4751	-342	5547	-430	6216	-516	6884	-690	7423	-917	7886	-1084	45
39188	1274	8756	-1340	9648	-1449	10422	-1465	11174	-1412	11677	-1361	12353	-1316	13207	-1327	26
39188	1275	13960	-1385	14553	-1446	15165	-1525	15918	-1612	16634	-1695	17214	-1770	17896	-1840	79
39188	1276	18381	-1883	18976	-1954	19531	-1992	20120	-2054	20517	-2093	21207	-2156	21690	-2191	67
39188	1277	22248	-2240	22687	-2282	23595	-2356	23618	-2347							14
39188	1281	831107	1200	32-2821				1788	2228	1894	2104	2010	1741	2085	1464	37
39188	1282	2475	1022	2772	720	3341	106	3799	-556	4146	-570	4765	-563	5696	-476	74
39188	1283	6631	-638	7744	-1116	8508	-1328	9484	-1442	11474	-1338	12695	-1311	14060	-1421	85
39188	1284	15820	-1621	16865	-1732	18180	-1882	19404	-1992	20876	-2125	22091	-2238	23161	-2312	60 558
39188	1285	24292	-2385	25484	-2463	26622	-2524	27795	-2587	28731	-2631	29958	-2700	31890	-2821	44
39188	1291	831120	1000	30-2743				1705	2095	1820	2252	1969	1862	2075	1492	99
39188	1292	2371	1075	2876	616	3570	-17	4363	-523	5394	-568	6517	-528	7631	-1009	69
39188	1293	9086	-1385	10167	-1437	11270	-1343	12462	-1314	13935	-1414	15278	-1555	16556	-1703	78
39188	1294	17695	-1825	18946	-1944	20059	-2053	21321	-2168	22501	-2265	23660	-2339	24578	-2400	96
39188	1295	25833	-2470	26880	-2530	28205	-2608	29617	-2668	30756	-2743					35
39188	1301	831202	815	33-2683				1769	2203	1841	2301	1995	1807	2124	1355	29
39188	1302	2377	1069	2787	760	3382	82	3946	-366	4535	-578	5128	-571	5834	-390	88
39188	1303	6581	-603	7306	-901	8144	-1217	8941	-1388	9825	-1446	10820	-1393	11731	-1312	54
39188	1304	12786	-1332	14014	-1419	15535	-1594	16827	-1731	17997	-1863	19075	-1957	20227	-2069	84 676
39188	1305	21430	-2178	22598	-2270	23858	-2358	24985	-2433	26213	-2499	27634	-2579	28646	-2624	9
39188	1306	29774	-2683													92
39188	1311	831216	900	49-2817				1739	2217	1758	2189	1761	2190	1822	2251	3
39188	1312	1923	2024	2011	1695	2094	1443	2202	1234	2207	1242	2392	1078	2648	893	16
39188	1313	2850	590	3121	327	3643	-173	3979	-538	4323	-636	4675	-594	5145	-633	89
39188	1314	5604	-422	6213	-474	7025	-740	7765	-1013	8497	-1273	9240	-1410	9921	-1434	35
39188	1315	10667	-1397	11370	-1346	11372	-1349	12080	-1331	12564	-1328	13236	-1358	14087	-1424	28
39188	1316	14981	-1523	15803	-1621	16466	-1689	17590	-1807	18506	-1902	19524	-1998	20320	-2080	74
39188	1317	20338	-2086	20732	-2119	21339	-2169	22201	-2249	22533	-2441	27420	-2567	28015	-2596	69
39188	1318	29291	-2656	30916	-2753	31991	-2817									89 504

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Table B1. (Continued)

39188	1321831227	1000 47-2743	1834 2266 2087 1457 2263 1076 2387 1064	76	
39188	1322 2762	704 3181 241 3681 -180 3936 -508 4179 -644 4880 -745 5205 -775	75		
39188	1323 5633	-806 6075 -596 6392 -418 6591 -477 7237 -665 7953 -976 8588-1261	65		
39188	1324 9068-1397	9473-1441 9802-145110100-144410423-143210881-140111303-1363	47		
39188	132511731-135012375-132912990-133613437-136414000-141314724-148815174-1539	23			
39188	132615531-158316126-165016690-171517219-177318047-185918859-194519717-2015	29			
39188	132720430-209222104-223023201-231324373-239525241-244626470-251128636-2623	1			
39188	132830903-2743		88		
39188	1331840104	915 31-2656	1808 2261 2001 1895 2092 1456 2300 1114	40	
39188	1332 2631	825 3059 497 3511 -71 3895 -330 4827 -724 5533 -871 6195 -841	80	524	
39188	1333 6907-1039	7633 -823 8703-1237 9694-143211284-134812362-133013598-1396	2		
39188	133414731-150715938-164617366-181518550-191819719-201520877-212622167-2235	39			
39188	133523340-231724538-240525768-247627044-255828080-260129112-2656	32			
39188	1341840117	845 46-2756	2092 1456 2330 1088 2554 805 2573 777	5	
39188	1342 2885	526 3226 220 3635 -341 4009 -559 4397 -689 4724 -771 5101 -941	26		
39188	1343 5563	-908 5967 -643 6448 -592 7039 -808 7773-1059 8615-1281 9106-1355	90		
39188	1344 9768-138110426-134511062-128711775-125612463-126313283-133313962-1403	86			
39188	134514673-149415291-156616074-165416908-174217849-184018572-189619188-1948	66			
39188	134619998-201820821-209821671-217022523-224023251-229723905-233824986-2419	7			
39188	134726077-248326929-253027819-258028531-261329194-266629977-269931069-2756	2	355		
39188	1351840123	1350 39-2777	1713 2113 1835 2336 1941 2137 2014 1889	70	
39188	1352 2091	1470 2316 1098 2317 1142 2741 684 2748 656 3421 -102 3896 -611	27		
39188	1353 4552	-783 5366 -444 5957 -493 6662 -715 7552-1027 8683-1298 9512-1370	38		
39188	135410383-133311311-126112207-126113399-135314486-147515549-160216742-1723	15			
39188	135517868-184118873-193019970-202121035-211922042-220323462-230724453-2385	47			
39188	135625559-245526590-251527780-257728885-264229922-269030778-274531286-2777	84			
39188	1371840210	850 34-2757	1821 2291 1933 2073 2092 1478 2204 1258	16	
39188	1372 2368	1056 2774 602 3342 -52 3974 -683 4734 -680 5371 -509 6152 -620	47		
39188	1373 6984	-881 8121-1201 9380-134310515-129011716-125112606-129113881-1418	23		
39188	137415022-154016202-167317157-176518136-185619461-196620535-207321532-2150	5	372		
39188	137522628-224423579-230624609-237525622-244426809-251628004-257828951-2633	42			
39188	137630129-270031158-2757		8		
39188	1381840216	1315 38-2718CV.10E	1831 2346 1885 2269 1951 2097 2012 1855	38	
39188	1382 2093	1439 2183 1258 2408 1000 2674 741 3029 389 3444 -106 3910 -589	21		
39188	1383 4304	-749 4906 -881 5455 -901 6532 -594 7020 -577 7775 -812 8578-1205	20		
39188	1384 9437-137410335-137311320-131511957-129914069-142115308-156516614-1711	77			
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Table B1. (Continued)

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Table B1. (Continued)

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39188	1591840910 1030 32-2044GH 1743 2159 1816 2285 1906 2201 1983 1958	60	576
39188	1592 2088 1449 2301 1132 2404 967 2718 722 2784 702 3009 706 3323 352	77	
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39188	1594 6542 -726 7502-1084 8567-1201 8801-1214 9640-123510139-126011480-1322	18	
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39188	1602 1934 1987 2148 1353 2349 1093 2519 886 2631 781 2816 785 3006 751	86	
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39188	1605 8800-1190 9750-122810744-127611803-134512384-140113858-152714751-1618	12	
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39188	1615 7395 -817 7493 -849 8231-1042 8772-1125 9546-117510200-121011274-1290	41	
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39188	1651841029 1120 45-2847 1752 2185 1802 2246 1918 2046 2101 1443	69	

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39188	1655	10886	-1227	11846	-1317	12275	-1365	13467	-1484	14396	-1580	14752	-1612	16070	-1745	48
39188	1656	17326	-1855	18466	-1966	19799	-2068	20898	-2148	22500	-2257	24001	-2358	24481	-2391	87
39188	1657	25992	-2472	27466	-2554	28580	-2624	29750	-2688	30991	-2768	32206	-2847			75
39188	1661	841119	1100	44-2400				1753	2195	1807	2248	1878	2169	1943	1978	1
39188	1662	2103	1440	2256	1250	2409	1090	2527	1009	2606	1020	2802	907	2855	836	1 572
39188	1663	3086	591	3538	239	3641	150	4019	-271	4484	-461	4726	-450	5309	-508	70
39188	1664	5759	-431	6361	-511	7012	-740	7244	-807	7979	-921	8701	-1018	9583	-1119	22
39188	1665	10117	-1178	11024	-1271	11847	-1351	12423	-1417	13423	-1510	14765	-1640	15565	-1721	95
39188	1666	16765	-1828	17706	-1893	18578	-1961	19310	-2030	19557	-2040	20191	-2102	20982	-2159	72
39188	1667	21817	-2214	22733	-2274	23393	-2319	23926	-2358	24770	-2400					72
39188	1671	841128	915	53-2754				1671	2082	1756	2174	1820	2237	1907	2095	95
39188	1672	1964	1875	2104	1442	2261	1223	2326	1177	2438	1047	2515	1064	2605	1018	25
39188	1673	2649	993	2710	934	2858	790	2925	716	2992	646	3075	472	3270	278	58
39188	1674	3621	-61	4096	-353	4449	-502	4772	-582	5174	-632	5478	-581	5956	-570	92
39188	1675	6244	-612	6470	-641	7074	-665	7896	-727	8672	-900	9623	-1081	9952	-1136	79 680
39188	1676	10624	-1219	11461	-1312	12458	-1419	13505	-1518	14564	-1630	15644	-1725	16704	-1821	40
39188	1677	17320	-1877	18052	-1940	18996	-2009	19973	-2068	20970	-2160	22067	-2232	223184	-2296	48
39188	1678	24383	-2392	25431	-2438	26671	-2529	27848	-2561	28962	-2625	30040	-2703	31067	-2754	17
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39188	1682	2435	1071	2529	1034	2587	981	2606	995	2835	831	2921	671	3105	465	68
39188	1683	3197	388	3570	37	4036	-223	4517	-333	5067	-582	6238	-664	7098	-675	97
39188	1684	7753	-777	9128	-998	9567	-1064	10281	-1162	11167	-1268	11957	-1360	12632	-1440	86
39188	1685	13485	-1511	14157	-1583	14674	-1648	15165	-1698	15910	-1751	16811	-1847	17476	-1890	32
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39190	2918	10717	1200	40-3070				1720	2360	1900	2200	1910	2090	2020	1170	9
39190	292	2390	650	2530	510	3330	150	3630	-120	3650	-160	3980	-440	4240	-510	35
39190	293	4480	-540	4700	-640	5030	-730	5390	-840	5720	-720	6400	-600	7200	-870	67
39190	294	8140	-1110	9170	-1230	10080	-1270	10200	-1290	11560	-1330	13100	-1460	13130	-1460	31
39190	295	14440	-1580	15440	-1690	23550	-2280	24920	-2390	26020	-2450	27660	-2570	28950	-2640	0
39190	296	29980	-2720	31660	-2820	33050	-2880	33950	-2910	33990	-2920	34580	-2980	35340	-3000	70
39190	297	36810	-3070													92
39190	371	810823	900	53-2400				1610	2130	1720	2380	1880	2270	1930	2170	45
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39190	373	3280	190	3520	-30	3730	-160	3990	-330	4360	-450	4960	-620	5220	-660	31
39190	374	5550	-770	5760	-800	5940	-820	6000	-800	6190	-800	6390	-790	6450	-780	99
39190	375	6620	-770	6730	-760	6770	-770	7000	-710	7340	-690	7690	-820	8020	-950	44
39190	376	8700	-1140	9010	-1170	9230	-1190	9570	-1230	10260	-1250	10800	-1270	11450	-1300	78
39190	377	12030	-1350	12890	-1430	13710	-1480	14550	-1610	15080	-1660	16660	-1820	17640	-1900	18
39190	378	18980	-1990	20190	-2060	21250	-2130	22170	-2190	23410	-2280	24550	-2330	25340	-2400	52
39190	461	811016	1300	40-2210				1840	2290	1930	2080	2040	1500	2170	1200	31
39190	462	2300	1090	2370	1020	2410	1000	2620	800	2890	570	3200	220	3520	-220	7
39190	463	3850	-270	4270	-560	4670	-810	5000	-880	5430	-890	5770	-860	6160	-820	68
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Table B1. (Continued)

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39190	484 5160 -810 5420 -830 5770 -850 6010 -830 6420 -810 6740 -710 6990 -660	93
39190	485 7320 -670 7700 -760 8050 -860 8420 -960 8920-1060 9330-1110 9810-1190	90
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39190	502 1980 1780 2040 1480 2210 1180 2450 840 2600 710 2610 700 2850 460	7
39190	503 3150 230 3390 -50 3630 -280 3840 -420 4120 -570 4460 -790 4720 -890	8
39190	504 4990 -970 5250 -950 5460-1050 5750 -960 6000-1000 6240 -940 6370-1000	67
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39190	524 4910 -750 5360 -930 5740 -970 6240 -990 6730-1040 7170-1110 7680-1160	85
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39190	544 5520 -940 5960 -980 6430-1000 6930-1050 7470-1140 8010-1190 8570-1230	40
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39190	554 4720 -520 5170 -700 5450 -790 5790 -880 6420 -990 7080-1110 7630-1200	44
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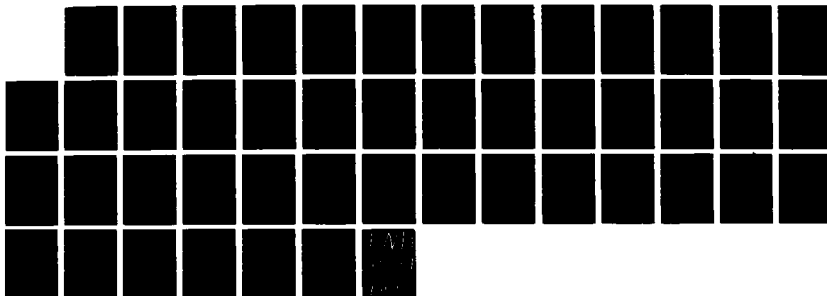
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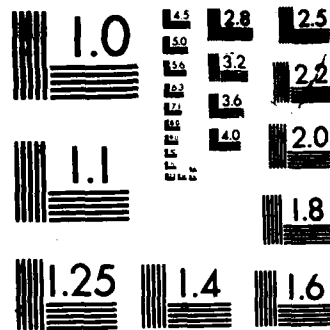
BEACH AND NEARSHORE SURVEY DATA: 1981-1984 CERC
(COASTAL ENGINEERING RESE. (U) COASTAL ENGINEERING
RESEARCH CENTER VICKSBURG MS P A HOWE ET AL. JUL 87
CERC-87-9 F/G 8/3

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Table Bl. (Continued)

39190	55715800-169016590-177017360-185018120-191018800-197019650-205020390-2100	76	
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39190	562 1988 1501 2031 1231 2141 957 2343 739 2556 571 2674 498 3041 166	5	
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39190	582 1934 2092 2017 1266 2251 867 2305 823 2618 538 3017 190 3429 -361	70	
39190	583 3705 -645 4108 -603 4471 -617 4862 -411 5256 -492 5704 -721 6229 -993	79	
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39190	591820120 1545 38-2740053 1741 2369 1835 2313 1945 2123 1993 1646	53	
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39190	611820128 1020 48-2850 1717 2385 1863 2283 1931 2152 1984 1614	53	
39190	612 2043 1208 2170 948 2709 391 3077 63 3322 -332 3647 -578 4046 -667	21	
39190	613 4330 -507 4566 -505 4868 -387 5334 -472 5798 -667 6222 -950 6680-1125	68	
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39190	61831573-278732499-2850	7	
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39190	622 2041 1240 2130 995 2273 872 2423 676 2681 468 3029 125 3322 -190	33	
39190	623 3486 -542 3821 -490 4146 -280 4508 -356 4960 -485 5375 -631 5854 -825	28	
39190	624 6346 -983 6874-1138 7447-1253 7958-1301 8502-1306 8933-1296 9591-1219	97	
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Table B1. (Continued)

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39190	662 2009 1369 2203 956 2316 776 2686 439 3094 -1 3349 -354 3639 -369	94	
39190	663 4157 -481 4628 -490 5253 -501 5982 -820 6694-1119 7554-1307 8178-1344	11	
39190	664 8888-1340 9600-128310377-118811215-111112049-116412994-128913863-1425	57	
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39190	672 1921 2138 1988 1595 2042 1212 2275 843 2299 805 2681 421 3101 183	14	
39190	673 3374 -46 3536 -332 3895 -381 4387 -348 5012 -480 5509 -543 6238 -915	72	
39190	674 6974-1192 7706-1333 8308-1335 9232-1306 9910-121010766-111011492-1124	34	
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39190	682 2021 1316 2160 1018 2358 750 2368 750 2667 551 3243 80 3528 -287	31	
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39190	722 1986 1622 2062 1166 2230 908 2302 790 2666 635 3012 333 3499 -106	41	
39190	723 3793 -482 4319 -543 4859 -420 5346 -487 5909 -695 6565-1051 7265-1254	83	
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Table B1. (Continued)

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39190	772 1988 1559 2051 1207 2293 897 2300 870 2789 511 3343 94 3825 -147	42	
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39190	774 8957-1096 9680-108910349-115611270-122412197-132913467-149014734-1630	69	
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39190	793 3485 133 3667 -91 4066 -136 4561 -261 5018 -433 5624 -666 6141 -915	53	
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39190	801820722 1200 33-2914 1633 2150 1740 2377 1917 2136 1975 1654	40	
39190	802 2086 1093 2325 846 2420 869 2662 660 3165 325 3864 -59 4624 -353	17	
39190	803 5313 -628 6103 -878 7053-1181 7744-1187 8771-1102 9634-109010672-1183	58	428
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Table B1. (Continued)

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39190	852 2085 1149 2264 899 2369 824 2793 547 3299 222 3774 -181 4232 -180	80
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39190	85627474-259428865-264930349-274231420-280832886-286233248-2883	5
39190	881820923 1100 39-2860 1625 2153 1721 2378 1909 2157 1989 1547	12
39190	882 2082 1107 2343 835 2624 774 3077 472 3459 30 3620 -237 4001 -256	4
39190	883 4445 -299 4827 -305 5413 -433 6046 -795 6638-1047 7312-1084 8092-1085	66
39190	884 8905-1094 9818-115910673-121011709-132612733-141413659-153414386-1619	47
39190	88515959-178316700-184817545-190218890-200720085-209621554-220623042-2301	33
39190	88623953-237125641-249327116-257128531-264929855-270830861-277832076-2860	10
39190	931821015 1630 42-2765D01 1447 1747 1649 2223 1720 2380 1965 1275	10
39190	932 2373 1042 2938 518 3336 53 3579 -307 3786 -868 3992 -644 4249 -646	47
39190	933 4681 -633 5191 -722 5593 -729 6010 -586 6317 -520 6839 -733 7623-1002	79 313
39190	934 8298-1069 8886-1094 9565-112610377-117411237-124812163-135913226-1496	59
39190	93514188-162515035-170916301-182317533-193318722-201919999-210621268-2186	84
39190	93622612-229423436-233524553-240425686-246426700-253527712-258528715-2638	95
39190	93730110-271330802-276531066-2762	8
39190	971821026 1050 37-2357 1604 2117 1700 2368 1745 2401 1886 2263	60
39190	972 1998 1415 2167 1212 2396 1012 2648 817 3023 405 3354 1 3728 -644	90
39190	973 4061 -796 4536 -823 4995 -774 5440 -644 5801 -470 6183 -475 6714 -645	52
39190	974 7211 -887 7770-1090 8441-1190 9247-1222 9878-119110795-119811604-1243	36
39190	97512276-130613047-139514031-154514859-164215762-174617016-186918291-1994	88
39190	97619188-206820527-216421799-225422650-231123316-2357	53 625
39190	981821103 1430 43-2914 1604 2117 1700 2368 1745 2401 1886 2263	31
39190	982 1998 1415 2167 1212 2395 1012 2701 700 3056 414 3604 -194 3850 -522	53
39190	983 4189 -728 4468 -337 4929 -412 5612 -580 6325 -771 6956 -936 7612-1094	19
39190	984 8441-1182 9102-1180 9617-116610296-115611037-119111883-127112823-1394	41
39190	98513950-154915086-169216008-178517087-189218227-198219381-207120699-2171	39
39190	98622005-226423235-233424455-242025610-249826692-255327642-260528926-2662	97
39190	98730199-272631408-277832717-283133685-2914	10
39190	1001821201 1200 42-2907 1737 2383 1882 2266 1968 1721 2010 1417	41
39190	1002 2340 1065 2419 994 2842 562 3217 145 3547 -233 3969 -618 4482 -533	8
39190	1003 5179 -634 5809 -414 6197 -590 6713 -807 7145 -994 7848-1184 8506-1241	0 339
39190	1004 8942-1224 9337-1204 9865-115610491-111511358-114812107-126013091-1410	2
39190	100513871-153915181-171216629-186018023-196619322-207220641-215821955-2257	38
39190	100623340-235324748-243925851-250626962-256528272-263329449-269330534-2734	41
39190	100731561-279132647-285733530-2907	28
39190	1011821207 1200 43-2907 1737 2383 1882 2266 1968 1721 2010 1417	70
39190	1012 2340 1065 2460 921 2885 462 3287 53 3574 -364 3864 -509 4286 -522	67
39190	1013 4653 -578 5202 -592 5705 -450 6114 -611 6684 -824 7145 -994 7848-1184	56
39190	1014 8506-1241 8942-1224 9337-1204 9865-115610491-111511358-114812107-1260	3
39190	101513091-141013871-153915181-171216629-186018023-196619322-207220641-2158	32
39190	101621955-225723340-235324748-243925851-250626962-256528272-263329449-2693	74 411

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Table B1. (Continued)

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(Sheet 54 of 61)

Table B1. (Continued)

39190 1084 8655-1327 9439-139910184-137010906-132311681-129412631-130113534-1385	5	
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39190 108621854-222323000-231523922-237824920-244825773-250326744-255427561-2588	23	
39190 108728538-264329516-269530322-2735	11	
39190 1091830224 1300 37-1989MR 1565 2007 1665 2199 1704 2385 1795 2304	14	
39190 1092 1857 2303 1898 2251 1999 1530 2199 1198 2369 910 2489 892 2823 536	49	
39190 1093 3243 150 3743 -588 4043 -712 4343 -421 4893 -424 5149 -464 5575 -562	45	
39190 1094 8067 -596 8592 -754 7019 -910 7511-1050 8003-1205 8594-1325 9086-1405	80	
39190 1095 9906-145310464-143911415-136412104-131112957-134913876-137415188-1520	39	
39190 109616041-162916895-174617879-186118830-196019191-1989	67	
39190 1101830303 1110 46-2337GE 1569 2010 1640 2175 1711 2407 1857 2298	56	
39190 1102 1887 2230 1919 2101 2016 1496 2562 753 2836 507 3186 183 3486 -256	20	404
39190 1103 3738 -585 4286 -864 4886 -817 5386 -715 5986 -569 6592 -592 7347 -864	63	
39190 1104 7904-1088 8692-1345 9446-145310365-145511448-137212399-130913219-1317	28	
39190 110513875-136514302-141414696-146215057-151115385-156015844-160916303-1658	25	
39190 110616533-170716894-175617320-180517780-185318272-190218698-195019190-1999	40	
39190 110719650-204820240-209620831-214421389-219222045-224022635-228923193-2337	34	
39190 1111830321 1500 39-2717 1569 2000 1641 2167 1711 2399 1887 2222	44	
39190 1112 1919 2093 1993 1518 2282 1029 2655 680 3169 153 3558 -318 3745 -623	94	
39190 1113 4179 -868 4688 -685 5290 -664 5896 -635 6578 -526 7189 -624 8027-1072	29	
39190 1114 8791-1373 9595-151010550-153011541-144312428-133813548-133014454-1398	44	
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39190 111624082-239524948-244925974-251426998-256227974-261229095-267829788-2717	71	
39190 1121830328 1045 38-2617 1695 2389 1787 2377 1889 2274 1958 1800	33	
39190 1122 1990 1572 2215 1175 2366 993 2662 710 3184 177 3749 -679 4050 -867	27	
39190 1123 4630 -865 5208 -740 5883 -660 6661 -684 7212 -709 7861 -914 8437-1200	9	
39190 1124 9316-149110013-155510722-154911550-154412567-145713410-137614458-1353	31	
39190 112515736-148516785-163217813-178118553-187419686-200320945-213222153-2237	84	
39190 112623079-230124682-242325806-247926933-254827708-258728456-2617	95	
39190 1131830412 1030 38-2723 1706 2407 1894 2268 1959 1809 1998 1558	68	
39190 1132 2236 1169 2353 1004 3056 344 3443 -62 3456 -82 3695 -534 4080 -518	36	
39190 1133 4622 -314 5326 -452 6100 -629 6878 -811 7627-1042 8456-1274 9169-1427	60	514
39190 113410214-152010975-149611745-148212573-139613558-134314596-135915651-1492	95	
39190 113516869-166918072-183319408-198120600-210721876-221723037-230724011-2391	76	
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39190 1141830506 835 34-2741CV-.05E 1699 2404 1896 2265 1992 1583 2163 1259	21	
39190 1142 2386 964 2836 752 3197 454 3682 80 4028 -270 4944 -490 5359 -620	46	
39190 1143 6123 -658 7131 -807 8092-1142 9033-1401 9924-148210776-147311759-1445	7	
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39190 114629673-266930576-2741	6	
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39190 1152 2204 1193 2374 981 2449 893 2834 731 3353 299 3831 -175 4388 -598	81	
39190 1153 5014 -593 5686 -483 6502 -690 7400 -976 8239-1221 9378-144710465-1472	52	
39190 115411711-143812752-135913925-135215388-148116880-167318215-184119477-1982	94	
39190 115520731-211021909-221823412-233424681-241826086-250227483-256628854-2630	65	
39190 115630281-270331519-277532654-2854	66	
39190 1161830613 825 32-2707 1699 2385 1794 2346 1902 2203 2002 1529	43	

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Table B1. (Continued)

39190	1162	2201	1196	2336	1031	2655	815	3071	516	3541	-32	3907	-293	4313	-408	5
39190	1163	4940	-446	5510	-460	6452	-731	7683	-1126	8875	-1401	9847	-1488	11156	-1433	5
39190	1164	12054	-1394	13586	-1349	14950	-1445	16413	-1620	17894	-1808	19365	-1975	21037	-2147	15
39190	1165	22188	-2252	23306	-2338	24569	-2411	25938	-2502	27173	-2564	28408	-2620	30078	-2707	98 524
39190	1171	830630	1055	33-2630			1693	2372	1817	2316	1895	2243	1997	1553		81
39190	1172	2265	1101	2901	707	3425	233	3862	-381	4129	-333	4732	-366	5410	-462	68
39190	1173	5970	-611	6599	-891	7282	-1067	8087	-1283	8992	-1430	9862	-1478	10532	-1464	82
39190	1174	11381	-1416	12668	-1360	13776	-1377	14987	-1452	16269	-1618	17512	-1771	18927	-1949	34
39190	1175	19944	-2040	21126	-2165	22282	-2249	23563	-2353	24915	-2433	26255	-2512	27507	-2570	22
39190	1176	28506	-2630													42
39190	1181	830711	825	36-2761			1699	2386	1721	2417	1816	2309	1888	2249		85
39190	1182	2000	1533	2151	1267	2307	1058	2545	818	3004	635	3558	43	4180	-260	73
39190	1183	4723	-371	5314	-453	5966	-714	6608	-900	7583	-1178	8450	-1344	9252	-1453	51
39190	1184	9982	-1483	11085	-1436	12089	-1389	13201	-1362	14579	-1434	15750	-1552	17101	-1721	24 562
39190	1185	18405	-1882	19735	-2026	21149	-2172	22636	-2281	23927	-2372	25094	-2441	26330	-2520	66
39190	1186	27420	-2576	28565	-2607	30120	-2704	31094	-2761							7
39190	1191	830725	1008	32-2751	001		1698	2561	1800	2368	1980	1725	2015	1507		86
39190	1192	2374	965	2783	765	3275	394	3680	-68	4239	-315	4736	-340	5317	-556	18
39190	1193	6067	-768	6884	-1008	7648	-1180	8384	-1333	9362	-1469	10388	-1479	11573	-1407	93
39190	1194	12802	-1355	13895	-1379	15103	-1475	16533	-1638	17857	-1816	19461	-1995	20684	-2119	8
39190	1195	21940	-2228	23372	-2345	24648	-2427	25829	-2491	27086	-2561	28617	-2678	30891	-2751	21
39190	1201	830808	840	30-2662			1811	2329	1968	1766	2034	1467	2150	1263		85
39190	1202	2297	1056	2632	818	2933	704	3244	481	3746	-103	4149	-213	4683	-350	66
39190	1203	5503	-645	6713	-965	7687	-1201	8812	-1408	9918	-1484	11130	-1431	12400	-1370	15 465
39190	1204	13979	-1386	15335	-1498	16874	-1693	18404	-1875	19917	-2042	21216	-2164	22673	-2290	33
39190	1205	24104	-2399	25366	-2465	26807	-2543	27867	-2609	29149	-2662					72
39190	1211	830825	900	29-2491			1811	2329	1968	1766	2034	1467	2150	1263		9
39190	1212	2383	967	2846	641	3264	181	3769	-364	4291	-457	4909	-448	5729	-490	13
39190	1213	6410	-863	7212	-1127	7943	-1271	8735	-1401	9467	-1471	10530	-1449	11502	-1404	60
39190	1214	12606	-1348	13674	-1389	14686	-1455	15994	-1596	17117	-1719	18438	-1889	19798	-2029	50
39190	1215	21008	-2155	23684	-2365	24997	-2445	25925	-2491							26
39190	1221	830906	835	36-2837			1702	2377	1893	2251	2038	1437	2285	1082		19
39190	1222	2291	1071	2620	827	3041	460	3376	131	3672	-286	4038	-254	4642	-314	78
39190	1223	5359	-433	6146	-656	6856	-1037	7567	-1205	8344	-1365	9339	-1468	10198	-1477	22 382
39190	1224	11008	-1428	11971	-1368	13019	-1383	13982	-1392	15001	-1480	16297	-1637	17680	-1809	67
39190	1225	19005	-1962	20586	-2118	22040	-2249	23536	-2366	24652	-2429	25908	-2501	27373	-2581	78
39190	1226	28696	-2645	29899	-2711	31067	-2764	32159	-2837							17
39190	1231	830918	845	33-2801			1702	2377	1893	2251	2038	1437	2275	1092		70
39190	1232	2285	1082	2730	691	3355	-58	3804	-476	4403	-471	4949	-790	5561	-813	98
39190	1233	6323	-717	7235	-851	8068	-1276	9099	-1433	10026	-1481	11023	-1431	12271	-1354	70
39190	1234	13630	-1367	14839	-1468	16027	-1608	17493	-1784	18996	-1957	20660	-2125	21832	-2220	11
39190	1235	22999	-2320	24353	-2415	25524	-2485	26803	-2542	27740	-2587	29139	-2661	30465	-2726	22
39190	1236	31629	-2801													26
39190	1241	831001	950	52-2704			1696	2380	1696	2377	1835	2324	1887	2269		95 554
39190	1242	1893	2244	1951	1881	1993	1577	1997	1563	2151	1269	2366	1001	2479	914	9
39190	1243	2750	644	3082	277	3125	210	3450	-117	3834	-721	4095	-815	4455	-664	92
39190	1244	4674	-565	4982	-458	5430	-394	5777	-449	6034	-483	6260	-534	6552	-579	40
39190	1245	6865	-732	7298	-964	7684	-1123	8026	-1250	8296	-1324	8834	-1401	9227	-1447	64

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Table B1. (Continued)

39190 1246 9682-148210396-149011483-141612124-137413060-135014173-138615091-1472	47	
39190 124716110-160417232-174218254-186418992-195319933-205421001-215122236-2252	1	
39190 124823394-233925226-245426682-252928019-260229286-265629953-2704	78	
39190 1251831005 805 26-2091 1696 2377 1836 2324 1893 2244 1951 1881	99	
39190 1252 1997 1563 2151 1269 2351 1022 2586 778 3227 178 3727 -439 4223 -616	28	
39190 1253 5025 -484 5842 -499 6842 -708 7771-1146 8719-1392 9702-148610639-1477	96	554
39190 125411665-140712696-135913799-137015031-147416416-164917599-179218826-1933	91	
39190 125520273-2091	66	
39190 1261831013 1310 39-2383 1696 2377 1836 2324 1893 2244 1951 1881	71	
39190 1262 1997 1563 2151 1269 2289 1077 2637 747 2674 708 2917 457 3139 220	72	
39190 1263 3281 42 3533 -354 3789 -559 4156 -552 4812 -529 5294 -573 6103 -609	9	
39190 1264 6760 -673 7635-1030 8473-1339 9416-147610054-147110910-143411587-1397	46	
39190 126512492-136113365-135514056-139914607-145315651-154916782-173217748-1816	34	
39190 126618818-196419828-205320394-211521134-218922190-225623106-235523995-2383	42	
39190 1271831024 1145 38-2348 1696 2377 1836 2324 1893 2244 1951 1881	47	
39190 1272 1997 1563 2151 1269 2279 1088 2569 797 2964 447 3251 148 3599 -391	65	543
39190 1273 4041 -594 4464 -603 4950 -609 5468 -592 6914 -721 7522 -955 8310-1287	97	
39190 1274 8990-1435 9738-149410454-148611296-138112268-132913143-133213996-1407	68	
39190 127514832-150215632-160116379-169117344-179518318-191218915-197419607-2045	30	
39190 127620246-210521003-216821692-221722201-225722731-229723362-2348	58	
39190 1281831107 1100 29-2671 1695 2385 1824 2335 1899 2200 1947 1902	61	
39190 1282 2001 1575 2187 1233 2803 751 3427 54 3984 -379 4801 -279 5681 -486	60	
39190 1283 6819 -830 7846-1184 8904-1393 9869-147510893-139212099-131013260-1381	19	
39190 128414543-149315951-165817485-183818948-198220335-211121639-221823241-2338	79	
39190 128524484-241625576-247427328-257029447-2671	80	
39190 1291831120 1100 30-2587 1695 2368 1882 2265 1936 1937 2020 1502	75	627
39190 1292 2303 1058 2605 854 3115 301 3623 -180 4299 -527 5133 -710 5917 -471	42	
39190 1293 7002 -759 7842-1142 8852-1407 9879-145110895-138011835-133012760-1345	65	
39190 129414077-145215350-159216572-172517598-185118750-196120094-208221450-2202	64	
39190 129522731-229724051-238925285-246126670-253927758-2587	61	
39190 1301831202 900 30-2491 1661 2279 1698 2386 1881 2271 1948 1874	55	
39190 1302 1999 1565 2370 982 2757 710 3259 107 3721 -282 4263 -554 5250 -631	81	
39190 1303 6189 -462 7150 -866 8025-1226 8826-1412 9879-145510988-137412146-1326	66	
39190 130413052-137214035-144915262-159116447-171817881-187518977-198620088-2087	34	
39190 130521341-219422430-227823611-235024688-242825798-2491	47	
39190 1311831216 1100 48-2773 1646 2237 1693 2381 1865 2264 1940 1899	40	555
39190 1312 1993 1570 2095 1352 2353 1011 2732 661 3083 340 3650 -248 4024 -613	74	
39190 1313 4565 -692 4997 -690 5339 -652 5645 -471 5844 -498 5984 -441 6307 -464	82	
39190 1314 6695 -595 7006 -741 7710-1043 8271-1258 8774-1380 9627-145810246-1429	52	
39190 131510690-140711130-137211937-133312548-133913415-138014196-145614815-1527	61	
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39190 131723133-232123910-237625565-246327126-255128019-259828911-264829556-2683	55	
39190 131830441-271931195-2773	43	
39190 1321831227 1130 34-2496 2278 1087 2536 857 2791 565 3146 158	36	
39190 1322 3657 -365 3983 -609 4473 -698 4934 -799 5418 -793 5852 -734 6364 -550	51	
39190 1323 6800 -557 7369 -723 7742 -902 8188-1116 8622-1307 9429-145310405-1449	12	520
39190 132411493-136812459-133813337-137814571-149815749-163116972-178318413-1931	32	
39190 132519606-204120574-212421342-219021965-222722919-230523992-237724671-2409	46	

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Table B1. (Continued)

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Table B1. (Continued)

39190	144517916-190619109-199120378-209021625-218022849-228323977-233625164-2420	5	
39190	1451840413 1200 35-2623CH300E 1694 2388 1721 2434 1878 2263 2049 1446	63	
39190	1452 2344 1124 2418 1070 2799 609 3324 71 3770 -314 4105 -646 4461 -788	6	
39190	1453 4890 -897 5435 -901 6070 -784 6611 -510 7120 -675 7880-1030 8641-1250	54	
39190	1454 9382-132510384-131811450-132212589-137813639-146414913-160316639-1792	70	
39190	145517922-189719118-198820365-208521523-217622724-226624141-235725275-2430	72	
39190	145626375-249827523-254828699-2623	98	
39190	1461840425 1030 33-2487CV.1E 1699 2395 1729 2440 1793 2372 1884 2271	41	
39190	1462 1944 1869 2025 1478 2130 1268 2487 999 2979 454 3563 -102 3936 -611	43	
39190	1463 4327 -799 4857 -843 5463 -415 6021 -507 6730 -714 7309 -918 8175-1167	28	480
39190	1464 9066-1306 9848-132310980-131312140-135913263-144814377-155915679-1702	40	
39190	146516980-182918264-192419869-204721083-214822387-223723773-233324940-2418	49	
39190	146626141-2487	61	
39190	1471840509 1050 34-2494AB 1699 2395 1729 2440 1793 2372 1884 2271	79	
39190	1472 1944 1869 2025 1478 2308 1092 2616 902 3219 406 3874 -184 4182 -365	0	
39190	1473 4504 -305 5191 -418 5535 -525 6270 -728 6859 -889 7517-1044 8189-1194	81	
39190	1474 9057-1290 9921-130110926-130211696-133012818-141313606-148214739-1595	64	
39190	147516260-176017501-186318802-195420146-206221490-216922662-225023956-2345	42	
39190	147625061-240626365-2494	44	
39190	1481840515 935 30-2400ABD02 1692 2393 1755 2377 1882 2296 1922 2264	59	519
39190	1482 2000 1615 2164 1259 2319 1077 2778 757 3237 294 3743 -4 4299 -327	41	
39190	1483 4905 -413 5373 -551 5855 -649 6360 -766 6905 -901 7666-1095 8504-1261	2	
39190	1484 9363-129510364-132111673-133712742-142113830-152515171-164816365-1780	91	
39190	148517532-188518654-197119952-204921292-214824660-2400	59	
39190	1491840524 1300 33-2603 1700 2396 1892 2271 1998 1615 2164 1259	71	
39190	1492 2338 1080 2652 885 3134 384 3540 -65 3820 -414 4190 -437 4680 -398	7	
39190	1493 5172 -500 5803 -606 6410 -742 7097 -953 7857-1149 8618-1247 9569-1273	29	
39190	149410801-130511935-134613212-144714305-155615790-174217167-185318491-1953	62	
39190	149519650-202620951-212822265-222923644-232224972-240826158-247627254-2541	15	
39190	149628368-2603	75	452
39190	1501840601 110 30-2574 1692 2386 1885 2282 2008 1582 2166 1262	5	
39190	1502 2322 1056 2525 984 3068 356 3606 -329 3868 -356 4611 -576 5161 -659	51	
39190	1503 5776 -627 6493 -726 7247 -982 8103-1202 9131-127210057-127911127-1293	99	
39190	150412341-139113639-150514881-164616271-177117548-187919187-201620485-2122	51	
39190	150521850-218623291-228124790-240726392-250827639-2574	18	
39190	1511840614 1040 21-1833 1699 2400 1887 2297 2042 1484 2492 998	38	
39190	1512 2968 458 3352 86 3864 -389 4388 -554 5130 -617 5828 -603 6504 -750	40	
39190	1513 7078 -953 7939-1178 8851-1253 9635-128710675-128911854-134313031-1445	97	
39190	151414082-159015509-171816972-1833	34	
39190	1521840627 1035 32-2633 1701 2393 1888 2276 2044 1475 2289 1127	31	464
39190	1522 2564 958 3106 373 3670 -253 4077 -502 4520 -587 5021 -369 5829 -654	86	
39190	1523 6187 -776 6681 -883 7228-1024 8022-1180 8871-1258 9848-126411106-1297	17	
39190	152412280-136913285-144514306-157215370-168217185-186018815-197720080-2060	13	
39190	152521147-213322485-225023878-236125075-241026179-248127483-257729157-2633	27	
39190	1531840710 1045 29-2514 1695 2388 1885 2270 2017 1541 2426 1041	8	
39190	1532 3016 479 3465 217 4000 -186 4558 -461 5069 -454 5744 -601 6460 -872	71	
39190	1533 7140-1032 7944-1195 8501-1234 9036-1252 9935-126610897-131111713-1355	18	
39190	153412743-142413952-154615643-171816992-183019081-200520519-210021955-2203	71	

(Continued)

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Table Bl. (Continued)

39190 153523529-232224691-238725886-247526869-2514	16	
39190 1551840727 1000 52-2521 1695 2415 1891 2278 2049 1474 2239 1183	57	384
39190 1552 2338 1078 2623 925 2940 537 3244 580 3562 116 3855 -262 4063 -295	87	
39190 1553 4415 -289 4798 -418 5176 -531 5659 -682 6478 -881 6930-1005 7537-1128	88	
39190 1554 7942-1194 8344-1222 8837-1247 9276-1253 9758-125710229-127410844-1290	17	
39190 155511286-131211635-132112247-138612661-141013266-146713768-152414196-1558	8	
39190 155614734-162815251-169015930-174716782-183417062-182617577-187718486-1956	14	
39190 155719266-200919921-206320669-212020982-212821490-217322244-224423105-2298	16	
39190 155823609-232524087-234824785-239625759-246226418-251326945-2521	44	
39190 1561840810 925 25-2425 1705 2407 1887 2284 2020 1540 2378 1061	66	
39190 1562 2957 623 3387 348 3873 -75 4428 -279 4956 -476 5677 -724 6482 -894	76	
39190 1563 7227-1066 7981-1197 8856-1254 9902-126111045-130412333-138313701-1514	15	431
39190 156415486-171317111-184218460-195320134-207021585-218223422-231425144-2425	29	
39190 1571840830 1220 30-2459 1696 2397 1732 2438 1824 2340 1884 2280	89	
39190 1572 2027 1525 2068 1413 2336 1104 2452 1025 2884 669 3418 161 3716 -34	63	
39190 1573 4267 -163 4981 -369 5676 -723 6404 -912 7535-1140 8722-1248 9727-1263	80	
39190 157410487-128011717-133812819-144014009-155315390-169316690-180417986-1915	93	
39190 157519805-204821358-217022909-228324156-236225864-2459	20	
39190 1581840906 1540 34-2518 1696 2397 1732 2438 1824 2340 1884 2340	4	
39190 1582 2027 1525 2068 1413 2336 1074 2336 1104 2664 886 3118 390 3668 6	14	
39190 1583 4266 -312 4721 -276 5358 -423 5829 -771 6475 -906 7272-1108 8109-1222	20	
39190 1584 8942-1253 9801-126610915-129711978-136113147-144914363-159215783-1730	76	488
39190 158517153-184817957-191719038-199220444-209821627-219022897-228124071-2355	73	
39190 158625473-244026729-2518	25	
39190 1591840910 1100 32-1966GH 1691 2385 1778 2385 1887 2264 1956 1823	9	
39190 1592 2013 1534 2268 1087 2273 1131 2498 960 2549 977 2813 733 3124 445	95	
39190 1593 3132 385 3330 262 3679 -247 4221 -454 4737 -534 5344 -422 5847 -476	90	
39190 1594 6152 -614 6763 -961 7152-1076 7647-1174 8494-1233 9377-125210203-1277	14	
39190 159510923-130412120-138313530-150515066-166616342-179517198-185718346-1966	7	
39190 1601840921 1045 30-2177 1703 2440 1807 2385 1892 2278 1951 1925	99	
39190 1602 2050 1506 2184 1266 2331 1083 2495 1081 2619 927 2696 903 3099 507	43	
39190 1603 3655 -100 4212 -402 4895 -753 5269 -782 5804 -584 6100 -545 6600 -699	26	481
39190 1604 7460-1037 8212-1187 9403-124910353-127111548-134512766-144713972-1559	87	
39190 160515194-168316861-182618620-197020325-208621495-2177	62	
39190 1611841002 955 32-2553 1601 2083 1696 2059 1815 2329 1890 2285	66	
39190 1612 2004 1617 2131 1312 2324 1118 2475 1043 2494 1002 2971 493 3451 53	43	
39190 1613 3746 -324 4125 -385 4588 -747 5018 -791 5512 -748 6126 -538 6531 -562	27	
39190 1614 7058 -797 7755-1051 8629-1202 9547-124410794-129511721-135012802-1473	11	
39190 161514068-158615328-171218661-197220491-211523886-236025354-245626530-2553	92	
39190 1631841015 1000 33-1212 1694 2388 1743 2434 1835 2330 1893 2263	32	
39190 1632 1935 2015 2033 1554 2081 1453 2157 1308 2318 1025 2478 857 2641 655	25	
39190 1633 3031 169 3059 156 3500 -504 3788 -852 3902 -648 4155 -521 4510 -584	61	506
39190 1634 4854 -724 5193 -691 5221 -726 5868 -991 6117-1035 6413-1070 6644-1119	96	
39190 1635 6861 -920 7119 -807 7471 -771 7927 -856 8239 -946 8795-1082 9254-1175	1	
39190 1636 9766-1212	37	
39190 1641841017 1445 39-2370GV 1694 2388 1743 2434 1835 2330 1893 2263	21	
39190 1642 1935 2015 2033 1554 2081 1453 2157 1308 2353 936 2478 859 2684 593	84	
39190 1643 3109 109 3504 -502 3807 -791 4043 -788 4326 -716 4751 -612 5163 -557	65	

(Continued)

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Table B1. (Concluded)

39190 1644 5592 -858 6121-1050 6592 -923 7463 -726 7915 -840 8576-1021 9095-1116	80	
39190 1645 9932-121310730-126411962-137712787-143413826-155414896-165016408-1782	42	
39190 164617403-187618810-200220045-209720967-216922035-223323131-229324233-2370	97	
39190 1651841029 1220 40-2841 1651 2263 1682 2404 1735 2462 1882 2285	46	569
39190 1652 1930 2002 2021 1573 2164 1271 2379 911 2748 610 3308 75 3746 -538	7	
39190 1653 3920 -641 4322 -741 4698 -642 5099 -658 5404 -966 5606 -936 5971 -982	42	
39190 1654 6295 -919 6772 -719 7458 -645 8084 -801 9024-102110200-118211383-1298	30	
39190 165512562-142013700-155414833-167116253-180917885-193619268-204920701-2152	46	
39190 165622464-226723696-234825248-243126775-251727932-258629384-267130676-2746	8	
39190 165732073-2841	76	
39190 1671841128 1030 46-2319D02 1646 2248 1689 2388 1753 2443 1847 2321	10	
39190 1672 1884 2243 2016 1563 2152 1295 2282 1093 2323 1015 2326 1009 2476 883	48	
39190 1673 2652 820 2753 763 2851 620 3016 481 3332 163 3585 -147 3800 -264	82	
39190 1674 4103 -478 4119 -492 4343 -632 4524 -685 4720 -678 5032 -678 5335 -643	68	417
39190 1675 5556 -637 5874 -596 6225 -614 6697 -630 7107 -649 7548 -705 7981 -820	33	
39190 1676 9086-104210111-118811044-128711983-138913139-151814332-163315472-1755	63	
39190 167716284-183017401-190318758-201019810-208720716-215321745-221523322-2319	19	
39190 1681841217 1315 44-2549 1884 2278 2034 1539 2234 1161 2342 973	60	
39190 1682 2471 886 2753 694 2847 634 3200 340 3625 -89 3846 -217 4159 -306	5	
39190 1683 4679 -559 5250 -653 5881 -643 6578 -654 7093 -711 7782 -807 8480 -918	96	
39190 1684 9488-108010340-119111217-131111969-139212758-148513508-156614216-1639	84	
39190 168515147-171916162-181616755-186317412-191018101-197118727-201719259-2051	83	
39190 168620318-213220909-217621583-221022205-225322817-229723637-234024300-2394	8	
39190 168725139-243325779-247326347-249026895-254926895-2529	16	467

(Sheet 61 Of 61)

APPENDIX C: PROGRAM DATACHECK

The following program was written as an aid to the proper entry of the profile data into the user's computer system. The program was run on the correct data at the Field Research Facility and the proper checksum values added to the BPAS format file as explained in Appendix B. The data should be entered without the checksum values and then run through this program. Compare the checksum values with those given in Appendix B. The code was developed on a Control Data Corporation computer, but should be easily converted to any system running an implementation of FORTRAN 77.

```

      PROGRAM DATCHK (INPUT,OUTPUT,TAPE7)
C
C      AUTHOR: MS. REBECCA SAVAGE, WESCD-F
C      THIS PROGRAM IS DESIGNED FOR THE DATA PROCESSOR TO COMPARE COPIES
C      OF DATA FILES TO MAKE SURE TRANSFERED COPIES ARE CORRECT.
C      THE COPY CAN BE CHECKED AT EVERY LINE OR EVERY TEN LINES.
C
C      THE PROGRAM READS FROM FORTRAN UNIT 7 AND WRITES TO UNIT 8
C
      INTEGER*2 ICARD(25),ITOT,LTOT,I,J,N,V,STOT
      CHARACTER*1 LINE(80),CARD(25)
C
      DATA ICARD/1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,
$           20,21,22,23,24,25/
      DATA CARD/' ',' ','-','0','1','2','3','4','5','6','7','8','9',
$           'G','H','D','E','O','M','R','C','V','A','S','B'/
C
C      DATA IS READ IN LINE BY LINE
C
      N=1
      V=1
      STOT=0
50    ITOT=0
      READ(7,100,END=99) LINE
100   FORMAT(80A1)
C
C      ASSIGN INTEGER VALUES TO CHARACTER DATA
C      AND KEEP SUMS OF DATA BASED ON CHARACTER AND LOCATION IN LINE
C
      DO 10, I=1,80
        DO 20, J=1,25
          IF (LINE(I).EQ.CARD(J))THEN
            ITOT=ICARD(J)*I+ITOT
            GO TO 10
          END IF
20      CONTINUE
      WRITE (*,103) LINE(I),N,I

```

```

        WRITE(8,103) LINE(I),N,I
103     FORMAT('UNKNOWN CHARACTER ',A1,' IN LINE',I5,' AT COLUMN',I3)
10     CONTINUE
C C
C REDUCE THE SUMS TO A MANAGABLE LEVEL, KEEP A LINE SUM (LTOT)
C AND A SUM OF TEN LTOT VALUES (STOT). N COUNTS THE LINE NUMBER IN
C THE DATA FILE, V COUNTS THE TEN LINE INCREMENT FOR STOT.
C EACH LINE IS OUTPUT WITH ITS VALUE OF LTOT, EACH TENTH LINE
C ALSO INCLUDES STOT
C
        LTOT=MOD(ITOT,100)
        STOT=LTOT+STOT
        N=N+1
        IF(V.EQ.10)THEN
            WRITE(8,101) LINE,LTOT,STOT
101     FORMAT(80A1,5X,2I5)
            V=1
            STOT=0
        ELSE
            WRITE (8,102) LINE,LTOT
102     FORMAT(80A1,5X,I5)
            V=V+1
        END IF
        GO TO 50
99     STOP
        END

```

APPENDIX D: WAVE HEIGHTS AT PIER END, 1981-1984

This Appendix presents plots (Figures D1 to D4) of significant wave height at the pier end for each of the 4 years of this report, 1981-1984. The data from the pier-end Baylor wave staff have been combined with transformed data from the nearshore Waverider buoy to provide as complete a record as possible. It should be noted that the pier-end location becomes saturated with respect to wave height at approximately 2.8 m; thus, a value of 2.8 m may indicate that the significant wave height is greater farther offshore.

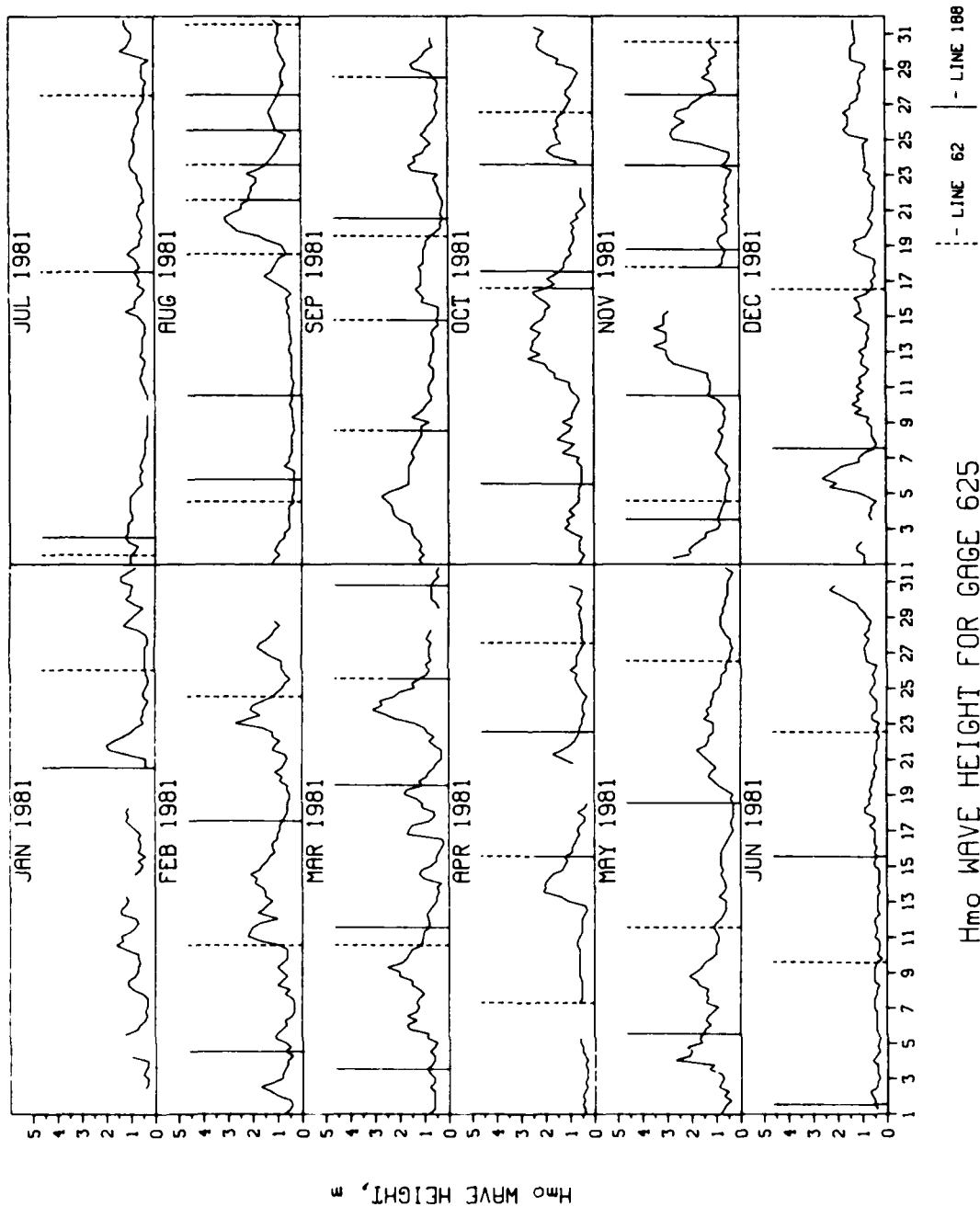
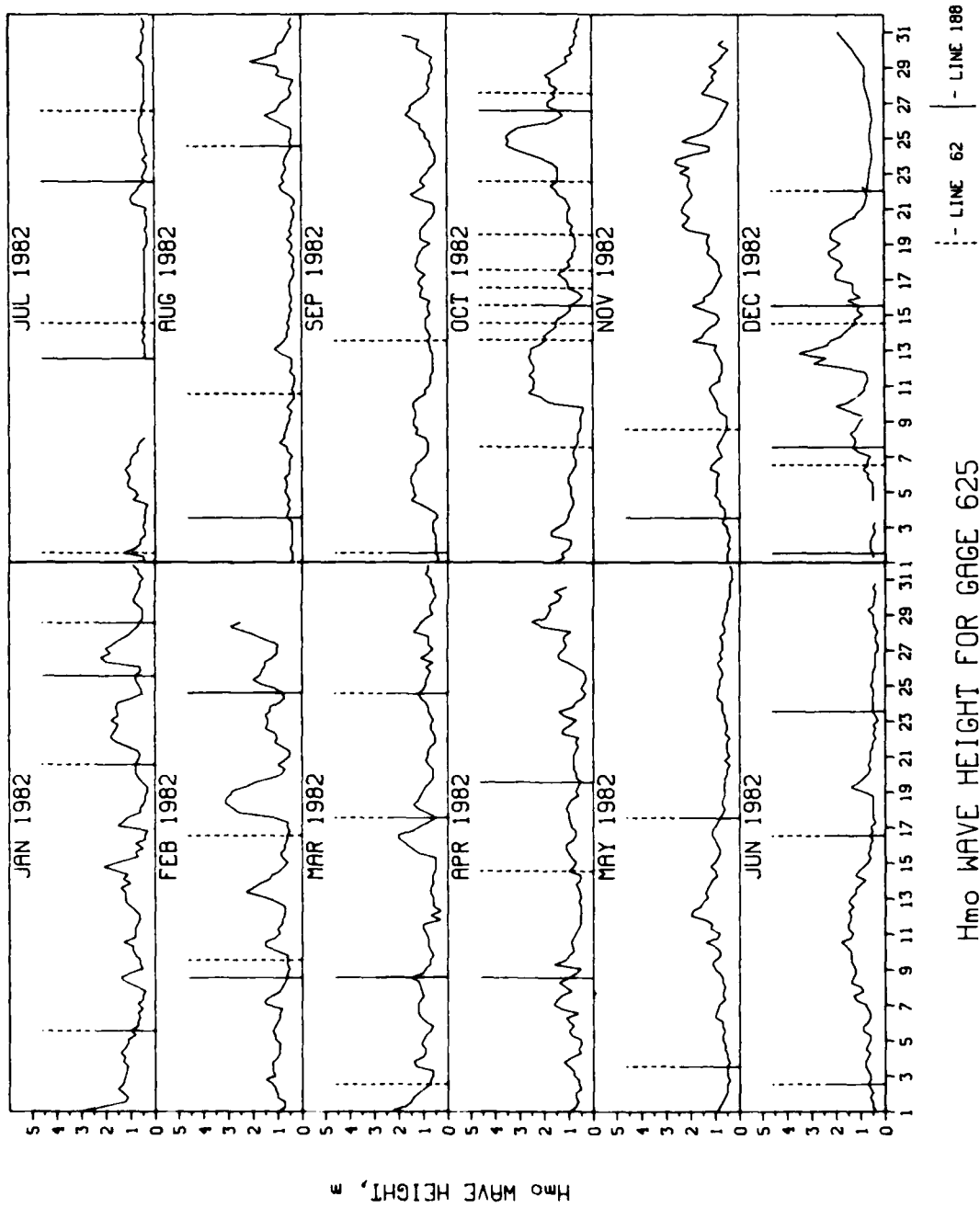
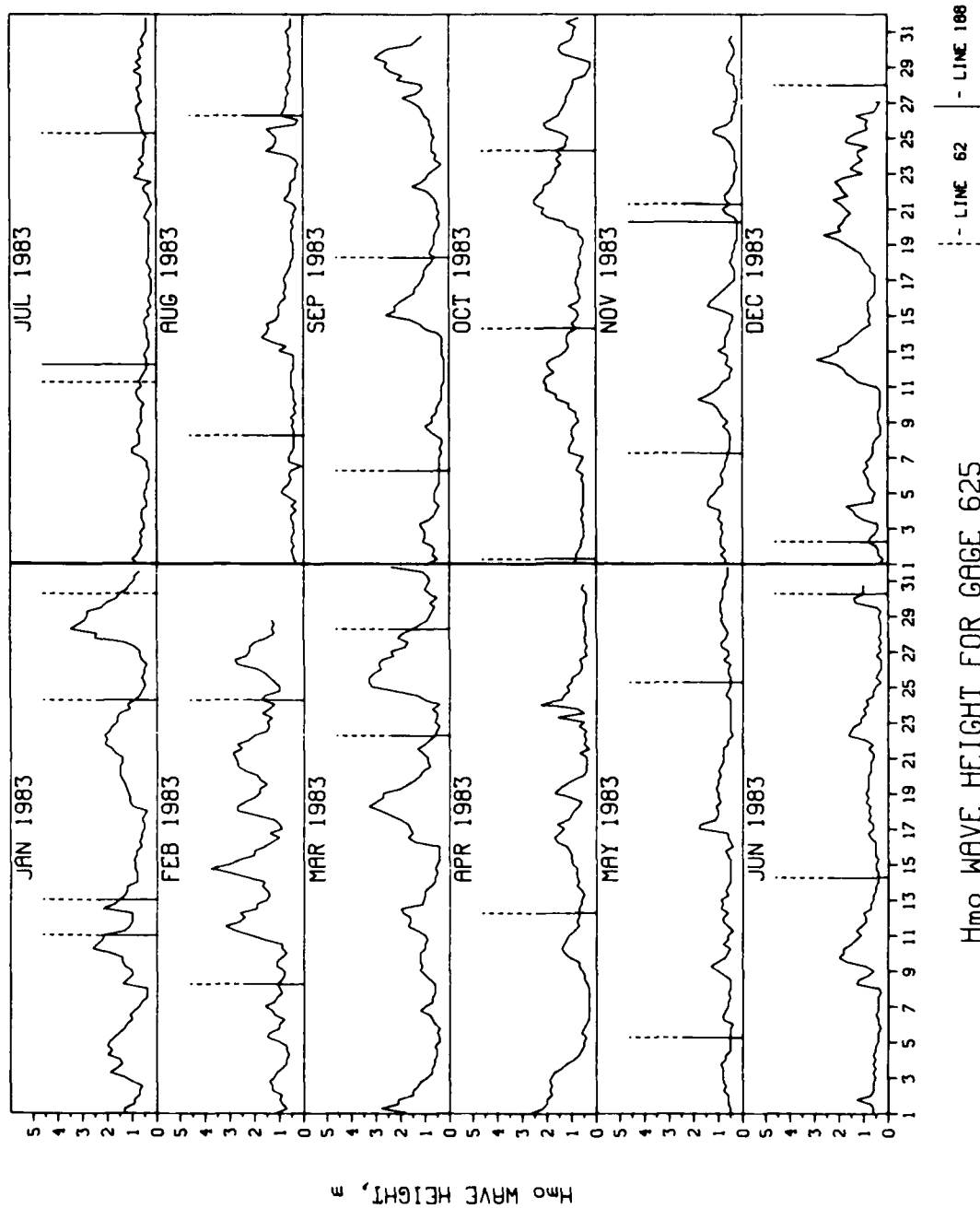


Figure D1. Wave height at pier end and times of surveys of lines 62 and 188, 1981



Hmo WAVE HEIGHT FOR GAGE 625

Figure D2. Wave height at pier end and times of surveys of lines 62 and 188, 1982



Hmo WAVE HEIGHT FOR GAGE 625

Figure D3. Wave height at pier end and times of surveys of lines 62 and 188, 1983

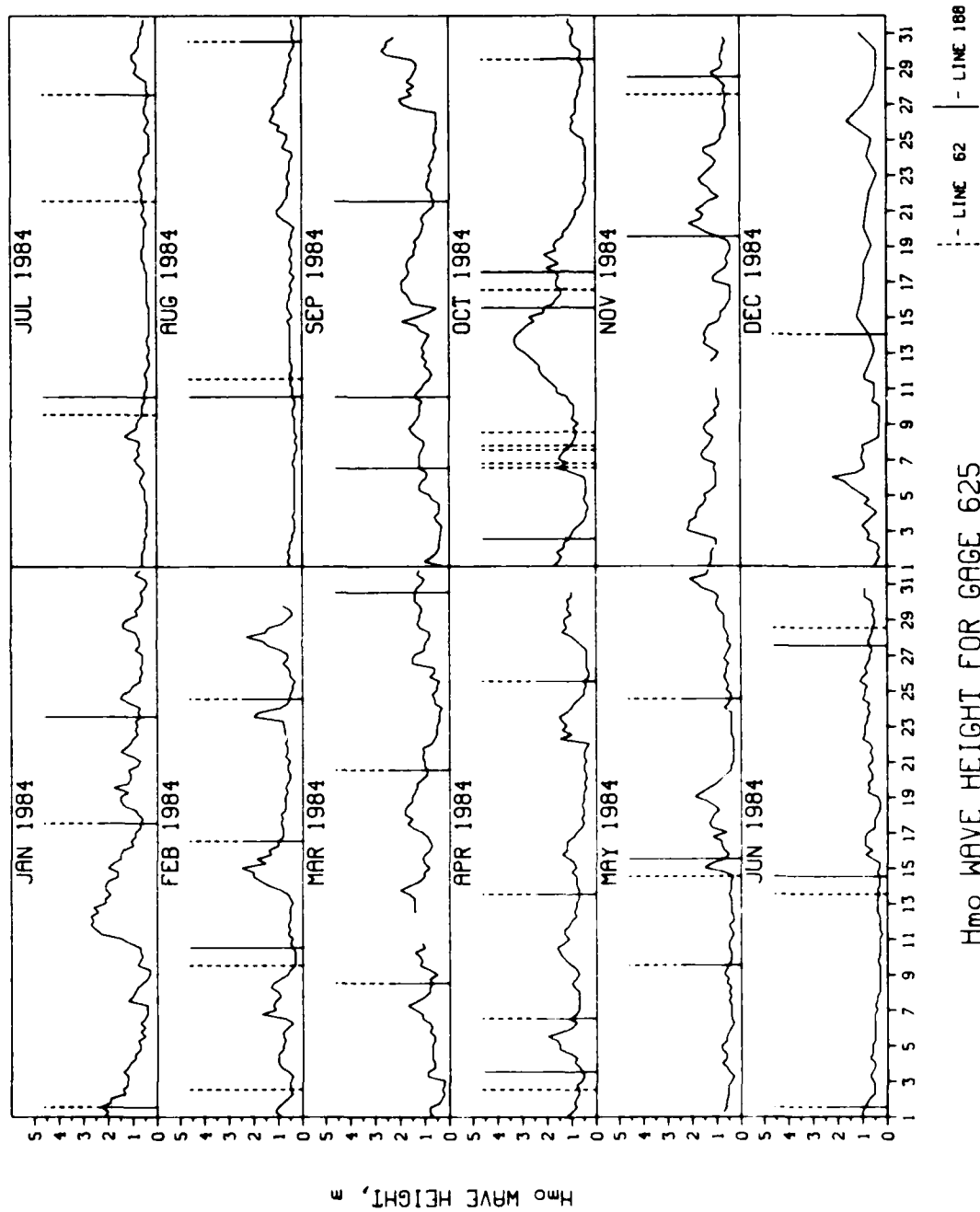


Figure D4. Wave height at pier end and times of surveys of lines 62 and 188, 1984

APPENDIX E: WAVE HEIGHT AND PEAK PERIOD, 1981-1984

Table E1 lists wave height and peak period for the 4 years covered by this report (1981-1984). The wave heights contained in the table are equivalent to those presented graphically in Appendix D. The periods are the period associated with the maximum energy peak in the wave spectrum calculated from a discrete Fourier transform of the record. Details of these calculations can be found in the main text.

Table E1

Wave Data From 1981-1984

JANUARY 1981				FEBRUARY 1981			
DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	0	10.0	1.1	1	100	8.0	0.7
2	1200	10.0	0.4	2	100	7.0	1.0
3	0	10.0	0.3	3	100	10.0	0.8
4	0	6.0	0.3	4	100	9.0	0.6
5	1200	6.0	1.2	5	100	12.5	0.7
6	100	6.0	0.6	6	100	6.0	0.6
7	100	12.0	0.3	7	100	14.0	0.3
8	115	5.0	0.9	8	100	12.0	0.5
9	100	7.0	0.7	9	100	8.0	0.8
10	105	4.0	0.7	10	700	10.3	0.6
11	105	5.0	1.4	11	100	9.0	2.2
12	105	4.0	0.8	11	700	9.0	2.1
13	105	6.0	1.1	11	1300	9.0	2.0
14	1310	12.0	0.8	12	100	9.0	1.0
15	105	10.0	0.5	13	100	7.0	1.2
16	100	4.0	0.6	14	100	9.0	1.9
17	1300	7.0	1.2	14	1300	12.0	2.1
18	100	7.0	1.2	15	100	10.0	1.6
20	1300	10.3	0.4	16	100	12.0	1.2
21	100	9.1	0.4	17	100	10.0	0.9
21	1900	8.0	2.0	18	100	9.0	0.6
22	100	9.0	1.7	19	100	9.0	0.5
23	100	9.0	0.5	20	100	7.0	0.8
24	100	5.0	0.4	21	100	8.0	0.6
25	100	3.0	0.4	22	100	9.0	0.9
26	100	6.0	0.4	23	100	12.0	2.7
27	100	10.8	0.4	23	700	14.0	2.2
28	100	5.4	0.4	23	1905	16.0	2.1
29	100	5.9	0.9	24	105	14.0	2.0
30	100	5.0	1.2	25	100	14.0	0.8
31	100	5.0	1.4	26	100	5.0	0.8
				27	100	10.0	1.5

(Continued)

(Sheet 1 of 22)

Table El. (Continued)

				28	100	10.0	1.2
<u>MARCH 1981</u>				<u>APRIL 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	12.0	0.8	1	100	8.0	0.4
2	100	10.0	0.6	2	100	6.0	0.5
3	115	10.0	0.6	3	100	8.0	0.3
4	100	5.0	0.6	4	100	14.0	0.3
5	100	7.0	0.5	5	100	6.0	0.6
6	100	16.0	1.7	7	700	9.0	0.6
7	100	10.0	1.2	8	100	9.0	0.5
8	100	12.0	1.2	9	1900	12.0	0.6
8	1900	14.0	2.0	10	100	11.0	0.6
9	100	14.0	2.0	11	100	10.0	0.6
9	700	14.0	2.5	12	100	10.0	0.5
10	100	14.0	1.6	13	100	5.0	1.1
11	815	12.0	1.0	13	1300	10.0	2.1
12	700	12.0	0.9	13	1900	11.0	2.0
13	100	14.0	0.5	14	100	11.0	2.0
14	100	12.0	0.3	15	100	10.0	1.2
15	100	6.0	0.7	16	100	7.0	0.9
16	100	9.0	0.3	17	100	8.5	0.7
17	100	6.0	1.6	18	100	6.4	0.7
18	110	12.0	0.6	20	1900	5.0	0.9
19	100	6.0	1.8	21	100	6.0	1.3
20	100	7.0	0.9	22	100	8.0	0.8
21	100	9.0	0.3	23	100	9.0	0.5
22	100	5.0	0.8	24	100	16.0	0.5
23	100	12.0	1.4	25	1300	13.7	0.8
23	700	14.0	2.2	26	100	5.1	1.0
23	1302	7.0	2.6	27	100	12.8	0.6
23	1900	8.0	3.1	28	100	12.1	0.5
24	100	10.0	2.7	29	100	3.8	0.6
24	700	12.0	2.8	30	100	7.0	0.6
24	1300	12.0	2.2				
24	1905	12.0	2.0				
25	117	12.0	1.4				
26	100	10.0	0.8				
27	100	10.0	0.8				
28	100	3.0	0.8				
29	1300	14.0	0.4				
30	100	14.8	0.7				
31	100	7.0	0.6				

(Continued)

(Sheet 2 of 22)

Table El. (Continued)

<u>MAY 1981</u>				<u>JUNE 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	5.0	0.8	1	700	8.0	0.4
2	100	3.0	0.7	2	100	4.0	0.6
3	100	5.0	0.7	3	100	8.0	0.3
4	100	10.0	2.7	4	100	9.0	0.6
4	700	9.0	2.1	5	705	9.0	0.3
4	1300	11.3	2.0	6	100	9.1	0.4
4	1900	12.0	2.2	7	100	8.0	0.5
5	100	10.0	1.6	8	100	8.0	0.4
6	105	10.0	1.2	9	100	9.0	0.5
7	100	8.0	0.9	10	100	9.0	0.4
8	115	5.0	1.3	11	105	8.0	0.5
8	1900	7.0	2.1	12	100	8.0	0.5
9	100	8.0	1.8	13	100	8.0	0.4
10	100	8.0	1.0	14	100	8.0	0.3
11	100	8.0	0.9	15	100	8.0	0.5
12	100	6.0	0.8	16	100	10.0	0.4
13	100	8.0	0.6	17	100	9.0	0.5
14	105	9.0	0.6	18	100	4.0	0.9
15	100	10.0	0.8	19	100	8.0	0.6
16	1300	8.0	0.5	20	100	9.0	0.5
17	100	8.0	0.3	21	710	8.0	0.5
18	100	7.0	0.3	22	100	6.0	0.4
19	100	8.0	0.3	23	100	6.0	0.3
20	100	6.0	1.3	24	100	3.0	0.4
21	700	5.0	1.6	25	100	5.0	0.6
22	100	8.0	1.3	26	700	10.7	0.4
23	100	10.0	1.1	27	700	4.7	0.9
24	100	10.0	1.2	28	100	5.7	0.9
25	100	10.0	0.9	29	100	5.3	0.8
26	100	9.0	0.6	30	100	10.5	1.6
27	100	9.0	0.4	30	1300	11.5	2.3
28	100	6.0	0.6	30	1900	7.7	2.1
29	100	8.0	0.8				
30	100	8.0	0.6				
31	100	7.0	0.5				

<u>JULY 1981</u>				<u>AUGUST 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.6	1.0	1	100	6.0	1.2
2	100	7.9	0.7	2	100	7.0	1.0
3	100	8.2	1.1	3	100	7.0	0.5
4	100	7.6	1.0	4	100	9.1	0.5
5	700	7.4	0.7	5	100	9.0	0.3

(Continued)

(Sheet 3 of 22)

Table El. (Continued)

6	100	8.4	0.6	6	100	9.0	0.3
7	700	8.8	0.4	7	100	5.0	0.5
8	100	8.7	0.4	8	100	10.0	0.4
9	100	9.9	0.3	9	1300	7.0	0.4
10	100	10.0	0.3	10	100	9.0	0.5
11	1300	3.7	0.6	11	705	10.0	0.3
12	100	9.6	0.5	12	700	10.0	0.4
13	100	9.6	0.5	13	100	10.0	0.5
14	100	9.1	0.4	14	700	12.0	0.5
15	100	3.2	0.7	15	100	11.0	0.5
16	100	6.1	0.7	16	100	10.5	0.6
17	100	10.6	0.6	17	715	5.0	1.5
18	100	4.4	0.7	18	700	6.0	0.9
19	100	8.7	0.6	19	100	4.0	0.8
20	100	8.3	0.5	19	2000	8.0	2.6
21	100	6.4	0.6	20	200	9.0	2.8
22	700	6.6	0.5	20	800	9.0	3.0
23	100	8.4	0.7	20	1400	11.0	3.1
24	100	8.3	0.9	20	2000	10.0	2.8
25	100	6.8	0.9	21	200	11.0	2.4
26	100	7.7	0.6	21	800	12.0	2.4
27	100	8.2	0.5	21	1400	12.0	2.1
28	100	6.6	0.4	21	2000	12.0	2.1
29	100	2.1	0.5	22	200	12.0	2.0
30	100	6.0	1.4	22	800	11.0	2.0
31	100	4.0	0.9	23	200	12.0	2.2
				24	710	11.0	1.0
				25	700	12.0	0.6
				26	700	6.0	1.2
				27	700	8.0	1.0
				28	700	9.0	0.7
				29	100	8.0	0.7
				30	100	6.0	0.9
				31	100	7.0	0.9

SEPTEMBER 1981

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.3	1.1
2	100	9.0	1.1
3	100	10.0	1.5
3	1300	12.0	2.0
3	1900	12.0	2.2
4	800	14.0	2.3
4	1400	12.0	2.5
4	2000	12.0	2.7
5	200	14.0	2.4
6	1300	11.9	1.6

OCTOBER 1981

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	12.0	0.6
2	100	12.0	0.6
3	100	6.8	1.2
4	100	6.0	1.0
5	100	8.9	0.6
6	100	11.3	0.5
7	100	3.6	0.6
8	100	5.7	1.5
9	100	6.0	1.3
10	100	6.0	0.7

(Continued)

(Sheet 4 of 22)

Table E1. (Continued)

7	100	12.5	1.4	11	100	5.0	1.0
8	700	11.4	1.1	12	100	6.0	1.9
9	100	10.8	0.8	12	700	6.0	2.0
10	100	10.2	0.9	12	1400	7.0	2.7
11	100	12.5	0.8	12	2000	7.0	2.2
12	100	11.4	0.6	13	200	8.0	2.6
13	100	10.2	0.6	13	900	8.0	2.5
14	100	11.8	0.7	13	1400	8.0	2.5
15	100	12.0	0.4	13	2000	6.0	2.3
16	200	14.0	1.0	14	100	8.1	2.2
17	700	8.0	1.1	14	700	9.4	2.6
18	100	12.0	1.0	14	1400	10.0	2.4
19	100	11.0	0.9	14	2000	9.0	2.1
20	100	7.0	0.3	15	200	10.0	2.0
21	800	8.0	0.2	15	800	11.0	2.0
22	100	11.0	0.4	15	1909	11.0	2.0
23	100	9.0	0.4	16	109	12.0	2.3
24	100	7.0	1.4	16	807	12.0	2.5
25	100	6.0	0.9	17	200	11.0	1.9
26	100	6.0	0.6	18	100	12.0	1.2
27	100	10.0	0.5	19	700	10.0	0.8
28	100	9.0	0.4	20	100	5.0	0.8
29	100	6.0	1.4	21	100	9.1	0.5
30	100	14.0	0.9	22	100	8.3	0.5
				23	1400	7.0	0.7
				24	100	5.0	1.6
				25	100	5.0	1.5
				26	100	7.0	1.5
				27	100	10.0	1.0
				28	100	6.7	0.9
				29	100	4.0	0.8
				30	200	9.0	2.2
				30	700	8.0	2.3
				30	1400	6.0	2.2
				30	1935	7.0	2.2
				31	200	7.0	2.0
				31	800	9.0	2.4

NOVEMBER 1981

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	900	12.0	2.7
1	1400	12.0	2.0
1	2000	12.0	2.1
2	200	12.0	1.9
3	100	11.0	0.9
4	719	10.0	0.7
5	1405	7.0	0.5

DECEMBER 1981

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	7.0	0.9
2	100	10.0	1.2
3	1300	9.0	0.6
4	100	6.0	0.6
5	100	5.0	1.1
5	900	10.0	2.3
5	1400	11.0	2.0

(Continued)

(Sheet 5 of 22)

Table El. (Continued)

6	805	6.0	0.6	5	2000	12.0	2.6
7	700	7.0	1.0	6	200	12.0	2.3
8	700	11.0	0.7	6	800	12.0	2.0
9	700	14.0	0.6	7	100	11.1	1.1
10	700	4.0	0.9	8	100	12.3	0.5
11	700	4.0	1.2	9	100	5.0	0.8
12	800	7.0	2.7	10	100	7.0	1.4
12	1400	8.0	2.9	11	100	7.1	1.2
12	2000	9.0	3.0	12	100	6.0	0.7
13	200	10.0	3.0	13	100	7.0	1.1
13	800	12.0	3.5	14	100	9.0	0.8
13	1400	10.0	3.0	15	100	9.0	1.3
14	200	14.0	3.0	16	100	10.9	1.3
14	800	12.0	3.5	17	100	9.9	0.6
14	1340	12.0	3.1	18	100	9.0	0.4
14	2000	11.0	3.1	19	100	6.0	1.2
15	200	12.0	3.1	20	100	6.0	0.6
15	700	12.0	2.9	21	100	6.0	0.5
17	1900	5.6	0.9	22	100	9.4	0.5
18	100	7.0	0.7	23	100	6.4	0.6
19	100	4.0	0.8	24	1300	5.3	0.9
20	100	3.5	0.5	25	100	5.1	0.7
21	100	4.0	0.6	26	200	6.0	1.5
22	100	4.0	0.6	27	100	6.0	1.4
23	100	4.0	0.4	28	100	8.0	1.0
24	100	12.0	0.4	29	100	9.7	0.8
25	100	8.0	2.7	30	100	5.7	1.4
25	800	9.0	2.8	31	700	4.7	1.3
25	1400	12.0	2.7				
25	1900	13.7	2.5				
26	100	13.1	2.2				
26	800	12.0	2.6				
26	1500	14.0	2.5				
26	2000	14.0	2.0				
27	200	17.0	1.9				
28	100	14.0	1.0				
29	100	6.0	1.3				
30	100	4.0	0.9				

JANUARY 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	2.9
1	700	11.0	2.1
2	100	10.0	1.3
3	1300	6.0	1.1
4	100	7.0	1.2
5	100	10.2	1.1

FEBRUARY 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.0	0.9
2	100	5.0	1.0
3	100	7.0	1.1
4	100	8.0	1.0
5	200	10.0	1.1
6	100	11.0	1.0

(Continued)

(Sheet 6 of 22)

Table El. (Continued)

6	100	12.6	0.7	7	100	5.0	1.5
7	100	14.0	0.7	8	100	10.0	0.8
8	900	6.0	1.3	9	100	11.0	0.5
9	100	14.0	0.5	10	100	4.0	1.0
10	100	6.0	0.9	11	100	10.0	0.9
11	100	2.8	0.8	12	100	8.0	0.7
12	100	4.4	0.6	13	100	6.0	1.5
13	800	6.0	1.2	13	900	7.0	2.3
14	200	10.0	1.3	13	1400	8.0	2.0
14	1900	6.2	2.1	14	200	9.0	1.3
15	100	7.5	1.5	15	100	10.0	0.6
16	200	10.0	0.8	16	100	11.0	0.7
17	200	6.0	1.5	17	100	7.0	0.6
18	200	4.0	0.6	17	2000	10.0	2.6
19	100	11.0	0.3	18	200	12.0	2.8
20	100	6.0	0.8	18	800	11.0	3.1
21	100	5.0	0.6	18	1400	11.0	3.1
22	200	7.0	1.8	18	2000	12.0	2.9
23	100	7.0	1.8	19	200	11.0	2.8
24	100	10.6	1.5	19	200	11.0	2.8
25	100	4.0	0.7	19	800	11.0	2.2
26	100	8.4	0.6	20	100	11.0	0.8
26	800	6.0	2.0	21	100	7.0	0.5
26	1400	7.0	2.2	22	100	10.0	1.0
27	200	7.0	2.0	23	200	9.0	1.4
28	200	8.0	0.9	24	100	10.0	0.9
29	100	12.0	0.5	25	200	6.0	1.7
30	100	12.0	0.8	25	800	7.0	2.0
31	100	5.0	0.5	26	200	6.0	1.5
				27	200	11.0	1.0
				27	2300	7.0	2.1
				28	800	9.0	2.9
				28	1400	10.0	2.5
				29	2000	11.0	2.6

MARCH 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	200	11.0	2.2
2	903	10.0	0.9
3	100	8.0	0.6
4	200	6.0	1.0
5	705	8.0	0.9
6	100	3.0	0.9
7	200	10.0	1.2
8	800	6.0	1.2
9	100	8.0	0.9
10	730	5.0	0.8

APRIL 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	9.0	0.9
2	100	10.0	0.7
3	100	10.0	0.8
4	100	6.0	0.9
5	100	10.0	0.5
6	200	5.0	1.0
7	100	7.0	1.6
8	700	6.0	1.4
9	100	5.0	0.5
10	100	7.0	0.8

(Continued)

(Sheet 7 of 22)

Table E1. (Continued)

11	100	9.0	0.9	11	1300	8.0	0.5
12	100	11.0	0.7	12	100	11.0	0.5
13	100	12.0	0.6	13	100	4.0	0.5
14	100	11.0	0.6	14	100	7.0	0.5
15	100	11.0	0.5	15	100	6.0	0.7
16	900	8.0	2.0	16	100	5.0	1.1
16	1400	8.0	2.0	17	100	7.0	0.9
17	200	10.0	1.1	18	100	7.0	1.1
18	100	5.0	1.2	19	100	7.0	0.7
19	100	9.0	1.0	20	100	7.0	0.7
20	100	8.0	0.6	21	100	7.0	0.8
21	100	5.0	0.8	22	100	8.0	0.6
22	100	11.0	0.5	23	100	7.0	0.7
23	100	11.0	0.6	24	100	9.0	0.7
24	100	4.0	0.9	25	100	10.0	0.4
25	100	7.0	0.9	26	100	6.0	0.7
26	100	7.0	0.9	27	100	10.0	1.2
27	100	9.0	0.6	28	100	10.0	0.9
28	100	7.0	1.4	28	824	6.0	2.1
29	100	7.0	0.6	28	1400	7.0	2.5
30	100	9.0	0.5	29	205	9.0	1.8
31	100	9.0	0.7	30	200	8.0	1.3

MAY 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	0.9
2	100	10.0	0.5
3	100	9.0	0.5
4	100	10.0	0.5
5	100	5.0	0.7
6	201	9.0	0.7
7	200	9.0	0.8
8	100	10.0	0.6
9	100	11.0	1.0
10	100	11.0	0.8
11	100	11.0	0.8
12	100	14.0	2.0
13	100	12.0	1.3
14	100	11.0	1.1
15	100	10.0	1.0
16	100	9.0	0.9
17	100	11.0	1.0
18	100	9.0	0.6
19	100	9.0	0.6
20	100	9.0	0.5
21	100	9.0	0.4
22	100	8.0	0.4

JUNE 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	14.0	0.4
2	100	9.0	0.5
3	100	7.0	0.6
4	100	6.0	0.7
5	100	5.0	0.6
6	100	8.0	0.7
7	100	8.0	0.8
8	100	9.0	1.0
9	100	9.0	1.2
10	100	10.0	1.4
11	100	12.0	1.3
12	100	11.0	1.4
13	100	11.0	1.4
14	100	11.0	0.8
15	100	9.0	0.7
16	100	9.0	0.6
17	100	10.0	0.6
18	100	14.0	0.5
19	100	7.0	0.9
20	100	10.0	0.7
21	100	10.0	0.6
22	100	9.0	0.4

(Continued)

(Sheet 8 of 22)

Table El. (Continued)

23	100	7.0	0.6	23	100	10.0	0.3
24	100	7.0	0.7	24	100	8.0	0.5
25	100	9.0	0.8	25	100	7.0	0.6
26	100	9.0	0.8	26	100	11.0	0.4
27	100	10.0	0.7	27	100	7.0	0.3
28	100	9.0	0.6	28	100	8.0	0.3
29	100	9.0	0.6	29	100	6.0	0.5
30	100	9.0	0.4	30	700	8.0	0.4
31	100	10.0	0.3				

JULY 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	0.4
2	100	5.0	0.6
3	100	6.0	0.5
4	100	5.0	0.4
5	100	6.0	0.8
6	100	7.0	1.1
7	100	6.0	0.9
8	100	9.0	0.4
12	1300	8.0	0.4
13	100	11.0	0.4
14	100	11.0	0.5
15	100	10.0	0.4
16	100	10.0	0.4
17	100	7.0	0.4
18	100	11.0	0.4
19	100	9.0	0.3
20	100	7.0	0.3
21	100	2.0	0.3
22	100	7.0	0.7
23	100	10.0	0.4
24	100	7.0	0.3
25	100	4.0	0.5
26	100	10.0	0.6
27	100	8.0	0.4
28	100	9.0	0.4
29	100	7.0	0.4
30	100	7.0	0.5
31	100	9.0	0.5

AUGUST 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	14.0	0.4
2	100	12.0	0.4
3	100	12.0	0.4
4	100	11.0	0.5
5	100	10.0	0.7
6	100	8.0	0.5
7	100	9.0	0.4
8	105	6.0	0.7
9	100	9.0	0.5
10	700	8.0	0.3
11	100	8.0	0.3
12	100	7.0	0.4
13	100	6.0	1.1
14	100	6.0	0.6
15	100	6.0	0.5
16	100	6.0	0.4
17	100	7.0	0.4
18	100	8.0	0.3
19	100	10.0	0.4
20	100	6.0	0.4
21	100	6.0	0.4
22	100	4.0	0.8
23	100	6.0	0.7
24	100	6.0	0.6
25	100	10.0	0.4
26	737	6.0	1.5
27	100	6.0	0.8
28	100	9.0	0.4
29	100	6.0	1.0
29	800	6.0	2.1
30	100	7.0	1.0
31	100	8.0	0.5

(Continued)

(Sheet 9 of 22)

Table E1. (Continued)

SEPTEMBER 1982				OCTOBER 1982			
DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	8.0	0.4	1	100	7.0	1.6
2	100	6.0	0.5	2	100	10.0	0.9
3	100	7.0	0.6	3	100	7.0	1.4
4	100	9.0	0.8	4	100	9.0	0.9
5	100	6.0	1.4	5	100	11.0	0.9
6	700	6.0	1.3	6	100	14.0	0.9
7	100	6.0	0.9	7	100	11.0	0.8
8	100	4.0	0.9	8	100	8.0	0.6
9	100	10.0	1.4	9	100	9.0	0.5
10	100	11.0	1.4	10	100	6.0	1.8
11	100	10.0	0.7	10	800	8.0	2.1
12	100	8.0	0.6	10	1415	12.0	2.6
13	100	6.0	0.7	10	2000	14.0	2.4
14	100	6.0	0.8	11	200	14.0	2.4
15	100	6.0	0.7	11	800	14.0	2.4
16	100	10.0	1.1	11	1403	14.0	2.6
17	100	11.0	1.1	11	2000	14.0	2.4
18	100	10.0	1.2	12	200	14.0	2.4
19	100	11.0	0.7	12	700	17.0	2.5
20	710	6.0	0.8	12	1500	17.0	2.6
21	100	8.0	0.5	12	2000	12.0	2.5
22	100	6.0	1.2	13	200	14.0	2.5
23	100	8.0	0.8	13	800	17.0	2.1
24	100	11.0	0.5	13	1900	12.0	2.0
25	100	9.0	0.9	14	822	14.0	1.5
26	100	5.0	1.4	15	100	12.0	1.1
27	100	8.0	1.3	16	100	11.0	0.4
28	100	8.0	0.8	17	100	6.0	1.1
29	100	9.0	0.6	18	100	14.0	1.0
30	100	6.0	1.2	19	100	14.0	0.7
				20	100	6.0	0.8
				21	100	7.0	0.9
				22	100	10.0	1.5
				23	100	5.0	1.4
				23	2000	6.0	2.1
				24	200	7.0	2.6
				24	800	8.0	3.1
				24	1400	10.0	3.5
				24	2000	12.0	3.4
				25	200	14.0	3.5
				25	800	14.0	3.3
				25	1400	12.0	3.0
				26	200	12.0	1.4
				27	100	10.0	1.8
				28	100	12.0	1.7
				29	100	12.0	1.3

(Continued)

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Table El. (Continued)

				30	100	11.0	0.9
				31	100	10.0	0.7
NOVEMBER 1982				DECEMBER 1982			
DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	17.0	0.5	1	800	10.0	0.5
2	100	17.0	0.5	2	100	5.0	0.6
3	100	6.0	0.5	3	100	9.0	0.5
4	100	7.0	0.6	4	1300	10.0	0.5
5	100	6.0	0.9	5	100	10.0	0.5
6	100	8.0	0.8	6	100	12.0	0.7
7	100	7.0	0.7	7	100	11.0	0.6
8	100	9.0	0.7	8	100	6.0	1.2
9	700	11.0	0.5	9	100	6.0	1.0
10	100	5.0	0.9	9	2100	6.0	2.0
11	100	7.0	1.1	10	100	7.0	1.5
12	100	8.0	0.7	11	107	10.0	0.8
13	100	7.0	1.0	12	107	6.0	1.7
14	100	6.0	1.4	12	700	7.0	2.9
15	100	10.0	0.9	12	1400	11.0	2.4
16	100	6.0	1.4	12	2000	11.0	3.5
17	100	11.0	0.8	13	800	11.0	2.3
18	100	9.0	0.9	13	1400	12.0	2.2
19	100	7.0	1.3	14	1300	12.0	1.2
19	2000	8.0	2.1	15	100	12.0	0.9
20	200	8.0	2.3	16	100	7.0	1.0
20	800	10.0	2.1	17	100	6.0	2.0
20	1300	11.0	2.0	17	817	7.0	2.0
20	2000	12.0	2.3	18	100	6.0	1.8
21	200	12.0	2.3	18	800	7.0	2.2
21	800	12.0	2.2	18	1400	8.0	2.3
21	1400	12.0	2.0	18	2000	11.0	2.0
22	200	12.0	2.0	19	100	11.0	1.8
22	800	14.0	2.1	19	800	14.0	2.2
22	1500	14.0	2.0	19	1400	12.0	2.2
22	2000	14.0	2.0	19	2000	14.0	2.1
23	200	14.0	2.4	20	100	14.0	1.9
23	800	11.0	2.0	21	100	12.0	0.9
23	1400	14.0	2.6	22	700	17.0	0.9
23	2000	14.0	2.5	23	100	16.8	0.6
24	200	12.0	1.9	24	100	15.8	0.5
24	2000	7.0	2.3	25	100	14.0	0.6
25	100	6.0	2.0	26	100	15.3	0.5
26	100	6.0	0.8	27	100	7.8	0.6
27	100	10.0	0.4	28	100	5.7	0.8
28	100	7.0	1.2	29	100	6.3	0.8
29	100	6.0	1.2	30	100	4.9	1.3

(Continued)

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Table El. (Continued)

30 100 7.0 0.4

31 100 5.5 1.9

JANUARY 1983FEBRUARY 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	1.3	1	100	11.0	1.1
2	100	10.0	0.7	2	100	5.0	0.9
3	100	5.0	1.3	3	100	9.0	1.2
4	100	6.0	1.5	4	100	9.0	0.7
4	700	6.0	2.0	5	100	5.0	1.0
4	1900	7.0	2.0	6	100	8.0	1.0
5	100	9.0	1.9	7	100	9.0	1.6
6	100	7.0	1.2	8	100	11.0	1.0
7	100	9.0	0.7	9	100	12.0	0.8
8	100	9.0	0.4	10	100	6.0	0.7
9	100	4.0	1.0	11	100	6.0	2.2
10	100	7.0	1.9	11	700	8.0	2.8
10	700	10.0	2.6	11	1300	10.0	3.2
10	1300	10.0	2.4	11	1900	11.0	2.6
10	1900	10.0	2.2	12	100	12.0	2.4
11	100	10.0	2.1	12	700	12.0	2.6
12	100	10.0	1.0	13	100	12.0	1.5
12	1300	7.0	2.2	14	100	6.0	1.6
13	100	11.0	1.5	14	700	8.0	2.3
14	100	11.0	0.8	14	1300	10.0	3.0
15	100	14.0	0.9	14	1900	12.0	3.8
16	100	11.0	0.6	15	100	12.0	3.0
17	100	12.0	0.5	15	700	11.0	2.6
18	100	12.0	0.4	15	1300	12.0	2.0
19	1300	6.0	1.3	15	1900	12.0	2.0
20	100	8.0	1.5	16	100	11.0	1.6
21	100	6.0	1.4	17	100	12.0	0.9
21	1900	7.0	2.1	18	100	8.0	2.7
22	100	7.0	2.0	18	700	10.0	2.7
22	700	7.0	2.1	18	1300	11.0	2.4
23	100	9.0	1.6	18	1900	11.0	2.0
24	100	10.0	1.2	19	100	11.0	1.8
25	100	9.0	0.5	20	100	11.0	1.9
26	100	9.0	0.5	20	700	15.0	2.4
27	100	8.0	0.7	20	1300	15.0	2.7
27	1900	8.0	2.5	20	1900	16.0	2.7
28	100	9.0	2.4	21	100	15.0	2.8
28	700	11.0	3.5	21	700	13.0	2.9
28	1300	9.0	3.2	21	1300	15.0	2.5
28	1900	14.0	2.9	21	1900	14.0	2.7
29	100	12.0	2.8	22	100	14.0	2.2
29	700	12.0	2.8	22	700	13.0	2.0
29	1300	12.0	2.2	23	100	13.0	1.5

(Continued)

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Table E1. (Continued)

29	1900	12.0	2.0	24	100	13.0	1.2
30	100	12.0	1.6	25	100	12.0	1.0
31	100	11.0	0.9	26	100	10.0	1.9
				26	700	11.0	2.7
				26	1300	12.0	2.8
				26	1900	11.0	2.3
				27	100	12.0	2.2
				27	700	14.0	2.2
				27	1300	12.0	2.0
				28	100	12.0	1.2

MARCH 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.0	1.8
1	700	11.0	2.8
1	1300	12.0	2.1
1	1900	10.0	2.1
2	100	11.0	1.5
3	100	11.0	0.9
4	100	10.0	0.8
5	100	12.0	0.4
6	100	10.0	0.6
7	100	7.0	1.0
8	100	8.0	0.6
9	100	9.0	1.2
10	100	10.0	1.2
11	100	9.0	1.0
12	100	10.0	1.6
12	1300	11.0	2.0
13	700	8.0	1.0
14	100	6.0	0.6
15	100	14.0	0.5
16	100	10.0	0.4
17	100	5.0	1.6
17	1300	8.0	2.0
17	1900	7.0	2.4
18	100	10.0	2.8
18	700	10.0	3.3
18	1300	11.0	3.0
18	1900	11.0	2.7
19	100	11.0	2.7
19	700	11.0	2.0
20	100	11.0	1.2
21	100	12.0	0.9
22	100	10.0	0.8
23	100	4.0	0.6
24	100	11.0	0.4

APRIL 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	7.0	2.6
1	700	11.0	2.2
1	1300	11.0	2.0
1	1900	10.0	2.0
2	100	12.0	1.8
3	100	8.0	1.8
4	100	11.0	0.9
5	100	9.0	0.5
6	100	9.0	0.4
7	100	14.0	0.3
8	100	9.0	0.3
9	100	8.0	0.6
10	100	11.0	1.3
11	100	13.0	1.1
12	100	10.0	0.7
13	100	10.0	0.6
14	100	10.0	0.7
15	100	9.0	1.0
16	100	7.0	1.2
17	100	12.0	1.3
18	100	11.0	0.9
19	100	6.0	1.7
20	100	10.0	0.5
21	100	4.0	0.4
22	100	9.0	0.4
23	100	10.0	0.5
24	100	8.0	2.3
25	100	12.0	1.2
26	100	9.0	0.6
27	100	11.0	0.5
28	100	10.0	0.4
29	100	14.0	0.5
30	100	12.0	0.4

(Continued)

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Table E1. (Continued)

24	1900	6.0	2.2
25	100	8.0	3.2
25	700	11.0	3.3
25	1300	12.0	3.3
25	1900	14.0	3.1
26	100	14.0	2.8
26	700	15.0	2.9
26	1300	13.0	2.8
26	1900	13.0	2.3
27	100	13.0	2.4
27	1900	12.0	2.1
28	100	11.0	1.9
29	100	10.0	0.8
30	100	5.0	0.5
31	100	7.0	0.8
31	1900	6.0	2.4

MAY 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	0.5
2	100	8.0	0.6
3	100	9.0	0.8
4	100	9.0	0.7
5	100	8.0	0.5
6	100	9.0	0.4
7	100	8.0	0.6
8	100	8.0	0.5
9	700	6.0	1.3
10	100	6.0	0.6
11	100	9.0	0.6
12	100	10.0	0.8
13	100	5.0	0.9
14	100	8.0	0.5
15	100	10.0	0.5
16	100	12.0	0.4
17	100	7.0	1.8
18	100	9.0	1.0
19	100	9.0	1.0
20	100	8.0	0.9
21	100	8.0	0.8
22	100	9.0	0.6
23	100	9.0	0.5
24	100	7.0	0.5
25	100	8.0	0.5
26	100	17.0	0.6
27	100	8.0	0.6
28	100	14.0	0.6
29	100	11.0	0.8

JUNE 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	9.0	0.6
2	100	5.0	0.7
3	100	10.0	0.5
4	100	14.0	0.5
5	100	12.0	0.4
6	100	9.0	0.4
7	100	6.0	0.4
8	100	7.0	0.4
9	100	6.0	0.6
9	1900	7.0	2.0
10	100	7.0	1.8
11	100	8.0	1.1
12	100	9.0	0.9
13	100	9.0	0.6
14	100	8.0	0.4
15	100	9.0	0.5
16	100	6.0	0.5
17	100	9.0	0.6
18	100	8.0	0.8
19	100	9.0	0.9
20	100	9.0	0.8
21	100	9.0	0.6
22	100	4.0	0.9
23	100	6.0	1.1
24	100	9.0	0.8
25	100	9.0	0.5
26	100	11.0	0.3
27	100	11.0	0.3
28	100	11.0	0.3

(Continued)

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Table El. (Continued)

30	100	10.0	0.8	29	100	4.0	0.4
31	100	9.0	0.7	30	100	7.0	1.4

JULY 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	6.0	0.8
2	100	7.0	0.6
3	100	9.0	0.5
4	100	10.0	0.6
5	100	8.0	0.5
6	100	17.0	0.3
7	100	3.0	0.6
8	100	8.0	0.7
9	100	7.0	0.6
10	100	8.0	0.5
11	100	6.0	0.6
12	100	7.0	0.4
13	100	10.0	0.4
14	100	12.0	0.4
15	100	10.0	0.3
16	100	10.0	0.3
17	100	10.0	0.2
18	100	10.0	0.4
19	100	10.0	0.3
20	100	10.0	0.3
21	100	10.0	0.3
22	100	7.0	0.5
23	100	8.0	0.7
24	100	8.0	0.5
25	100	10.0	0.4
26	700	14.0	0.7
27	100	14.0	0.6
28	100	14.0	0.6
29	100	8.0	0.6
30	100	7.0	0.7
31	100	10.0	0.4

AUGUST 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	12.0	0.3
2	100	7.0	0.4
3	100	8.0	0.4
4	100	17.0	0.3
5	100	10.0	0.9
6	100	9.0	0.6
7	100	7.0	0.6
8	100	10.0	0.4
9	100	14.0	0.4
10	100	14.0	0.3
11	100	14.0	0.5
12	100	7.0	0.4
13	100	5.0	1.0
14	100	7.0	1.5
15	100	8.0	1.0
16	100	9.0	0.7
17	100	8.0	0.8
18	100	8.0	0.5
19	100	9.0	0.4
20	100	10.0	0.4
21	100	10.0	0.3
22	100	5.0	0.5
23	100	6.0	0.3
24	100	4.0	0.6
25	100	7.0	1.1
26	100	7.0	0.2
27	100	7.0	0.7
28	100	9.0	0.6
29	100	8.0	0.5
30	100	7.0	0.5
31	100	6.0	0.7

SEPTEMBER 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	4.0	0.9
2	100	8.0	0.7
3	100	5.0	1.1
4	100	12.0	0.5
5	100	10.0	0.6
6	100	14.0	0.4

OCTOBER 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	0.9
2	100	10.0	0.6
3	100	10.0	0.5
4	100	14.0	0.6
5	100	14.0	0.5
6	100	14.0	0.5

(Continued)

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Table E1. (Continued)

7	100	14.0	0.4	7	100	14.0	0.5
8	100	11.0	0.3	8	100	12.0	0.9
9	100	6.0	0.7	9	100	6.0	0.7
10	100	10.0	0.4	10	100	6.0	1.1
11	100	8.0	0.3	10	1900	7.0	2.0
12	100	14.0	0.2	11	100	9.0	2.0
13	100	14.0	0.3	11	700	9.0	2.1
14	100	4.0	0.5	11	1300	10.0	2.0
15	100	8.0	2.6	12	100	10.0	1.9
15	700	8.0	2.2	12	700	11.0	2.0
15	1300	7.0	2.2	13	100	11.0	1.2
15	1900	9.0	2.0	14	100	11.0	1.1
16	100	11.0	1.7	15	100	11.0	0.7
17	100	7.0	1.1	16	100	9.0	0.6
18	100	10.0	0.7	17	100	11.0	0.8
19	100	11.0	0.6	18	100	10.0	0.6
20	100	10.0	0.4	19	100	9.0	0.5
21	100	9.0	0.5	20	100	5.0	1.2
22	100	4.0	0.9	20	1300	6.0	2.0
23	100	6.0	0.8	20	1900	8.0	2.2
24	100	10.0	0.5	21	100	9.0	2.1
25	100	4.0	0.6	21	700	7.0	2.5
26	100	8.0	0.8	21	1300	10.0	2.5
27	100	9.0	1.5	21	1900	8.0	2.3
28	100	10.0	1.1	22	100	8.0	2.1
28	700	10.0	2.1	22	700	10.0	2.1
28	1900	9.0	2.4	23	100	12.0	1.6
29	100	11.0	2.6	24	100	12.0	1.4
29	700	11.0	2.5	25	100	14.0	1.1
29	1300	11.0	3.0	25	1300	6.0	2.0
29	1900	12.0	2.8	25	1900	7.0	2.1
30	100	9.0	2.5	26	100	10.0	1.8
				27	100	12.0	1.2
				28	100	6.0	0.9
				29	100	11.0	0.2
				30	100	8.0	1.5
				31	100	7.0	0.9

NOVEMBER 1983

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	8.0	0.7
2	100	7.0	0.9
3	100	7.0	0.9
4	100	11.0	0.9
5	100	12.0	1.1
6	100	14.0	0.9
7	100	12.0	0.6

DECEMBER 1983

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	7.0	0.3
2	100	14.0	0.5
3	100	3.0	0.4
4	100	6.0	1.4
5	100	8.0	0.5
6	100	8.0	0.9
7	100	12.0	0.7

(Continued)

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Table El. (Continued)

8	100	12.0	0.5	8	100	5.0	0.5
9	100	14.0	0.6	9	100	14.0	0.4
10	100	9.0	1.2	10	100	12.0	0.3
11	100	9.0	0.9	11	100	11.0	0.5
12	100	9.0	0.4	12	100	7.0	1.8
13	100	6.0	1.0	12	700	11.0	2.1
14	100	6.0	0.6	12	1300	9.0	2.9
15	100	5.0	0.4	12	1900	10.0	2.3
16	100	11.0	1.1	13	100	11.0	2.0
17	100	9.0	0.3	13	700	9.0	2.0
18	100	4.0	0.5	14	700	11.0	1.0
19	100	12.0	0.3	15	100	9.0	0.7
20	100	11.0	0.2	16	700	10.0	0.5
21	100	8.0	0.8	17	100	10.0	0.5
22	100	9.0	0.5	18	100	17.0	0.9
23	100	12.0	0.3	19	100	6.0	1.7
24	100	12.0	0.3	19	700	6.0	2.0
25	100	7.0	0.7	19	1300	7.0	2.6
26	100	10.0	0.4	20	100	9.0	2.0
27	100	10.0	0.2	21	100	7.0	1.7
28	100	12.0	0.3	21	1300	6.0	2.2
29	100	5.0	0.6	22	100	7.0	1.8
30	100	7.0	0.3	22	1300	10.0	2.1
				23	100	10.0	1.0
				24	100	5.0	1.2
				25	100	7.0	1.6
				26	100	5.0	0.8
				27	100	9.0	0.3
				28	100	14.0	0.1
				29	100	9.0	0.5
				30	100	8.0	1.4
				31	100	7.0	1.7

JANUARY 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	2.1
1	700	11.0	2.0
1	1300	11.0	2.3
2	100	7.0	1.9
3	100	11.0	1.2
4	100	12.0	1.1
5	100	11.0	0.7
6	100	5.0	0.5
7	100	9.0	0.4
8	100	5.0	0.9
9	100	10.0	0.3

FEBRUARY 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	6.0	0.9
2	100	11.0	0.6
3	100	11.0	0.5
4	100	7.0	1.0
5	100	8.0	0.8
6	100	9.0	0.6
7	100	6.0	1.1
8	100	6.0	1.0
9	100	8.0	0.6
10	100	10.0	0.3
11	100	10.0	0.4

(Continued)

(Sheet 17 of 22)

Table El. (Continued)

10	100	5.0	0.6	12	100	11.0	0.5
11	100	8.0	1.5	13	100	6.0	0.4
11	700	7.0	2.3	14	100	8.0	1.4
11	1300	9.0	2.5	14	1300	10.0	2.0
11	1900	10.0	2.7	14	1900	11.0	2.0
12	100	7.0	2.6	15	100	10.0	2.5
12	700	9.0	2.7	16	100	10.0	1.4
12	1300	9.0	2.4	17	100	9.0	0.8
12	1900	6.0	2.6	18	100	10.0	0.9
13	100	11.0	2.1	19	100	10.0	0.7
13	700	9.0	2.1	20	100	8.0	0.5
13	1900	12.0	2.1	21	100	10.0	0.5
14	100	12.0	2.1	22	100	11.0	0.7
14	700	11.0	2.0	23	700	3.0	0.8
15	100	12.0	2.0	23	1300	7.0	2.0
16	100	10.0	1.4	24	100	11.0	0.9
17	100	11.0	0.9	25	100	11.0	0.4
18	100	9.0	0.8	26	100	7.0	0.5
19	100	9.0	1.5	27	100	5.0	0.6
20	100	7.0	1.1	28	100	9.0	2.3
21	100	10.0	0.7	29	100	10.0	0.6
22	100	6.0	1.1				
23	100	4.0	0.8				
24	100	10.0	0.7				
25	100	9.0	1.1				
26	100	11.0	0.6				
27	100	11.0	0.6				
28	100	10.0	0.8				
29	100	6.0	1.2				
30	100	9.0	0.6				
31	100	9.0	0.4				

MARCH 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	4.0	0.7
2	100	12.0	0.3
3	100	10.0	0.2
4	100	6.0	0.6
5	100	14.0	0.7
6	100	7.0	0.7
7	100	6.0	1.4
8	100	12.0	0.8
9	100	7.0	0.5
10	100	10.0	1.2
12	1300	6.0	1.4
13	700	7.0	1.4
13	1900	10.0	2.0

APRIL 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	1.2
2	100	12.0	0.8
3	100	11.0	0.6
4	100	10.0	0.9
5	100	11.0	1.5
5	1300	12.0	2.0
6	100	12.0	1.0
7	100	9.0	0.7
8	100	11.0	0.7
9	100	11.0	0.7
10	100	6.0	1.4
11	100	9.0	1.1
12	100	7.0	1.0

(Continued)

(Sheet 18 of 22)

Table E1. (Continued)

14	100	10.0	1.6	13	100	11.0	0.8
15	100	10.0	0.8	14	100	9.0	0.8
16	100	12.0	0.8	15	100	8.0	0.8
17	100	12.0	1.1	16	100	12.0	1.2
18	100	7.0	1.8	17	100	9.0	0.8
19	100	12.0	1.5	18	100	11.0	0.5
20	100	14.0	1.1	19	100	11.0	0.5
21	100	10.0	1.0	20	100	9.0	0.4
22	100	11.0	0.7	21	100	10.0	0.4
23	100	11.0	0.5	22	100	10.0	0.3
24	100	11.0	0.3	23	100	11.0	1.2
25	100	6.0	0.5	24	100	12.0	1.0
26	100	7.0	0.6	25	100	11.0	0.5
27	100	10.0	1.4	26	100	12.0	0.3
28	100	9.0	0.8	27	100	11.0	0.4
29	100	10.0	1.2	28	100	10.0	1.0
30	100	8.0	1.4	29	100	11.0	1.3
31	100	12.0	1.1	30	100	11.0	1.2

MAY 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	700	11.0	0.7
2	700	10.0	0.5
3	100	9.0	0.4
4	100	7.0	0.8
5	100	11.0	0.8
6	100	8.0	0.4
7	100	7.0	0.4
8	100	7.0	0.5
9	100	4.0	0.7
10	100	7.0	0.4
11	100	6.0	0.4
12	100	8.0	0.3
13	100	9.0	0.4
14	100	8.0	0.4
15	100	6.0	1.5
16	100	3.0	0.7
17	100	6.0	0.6
18	100	8.0	1.1
19	100	12.0	1.9
20	1300	11.0	0.4
21	100	9.0	0.3
22	100	10.0	0.3
23	700	10.0	0.4

JUNE 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	1.0
2	100	6.0	0.7
3	100	7.0	0.6
4	100	11.0	0.5
5	100	11.0	0.6
6	100	10.0	0.5
7	100	10.0	0.4
8	100	10.0	0.3
9	700	9.0	0.3
10	100	9.0	0.3
11	100	7.0	0.3
12	100	8.0	0.3
13	100	10.0	0.4
14	100	10.0	0.3
15	100	9.0	0.3
16	100	6.0	0.6
17	100	5.0	0.8
18	100	7.0	0.4
19	100	9.0	0.4
20	100	9.0	0.6
21	100	9.0	0.6
22	100	7.0	0.7
23	100	5.0	0.9

(Continued)

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Table El. (Continued)

24	100	5.0	0.7	24	100	4.0	0.8
25	100	7.0	0.6	25	100	7.0	0.9
26	100	6.0	0.6	26	100	10.0	0.8
27	100	7.0	0.6	27	100	9.0	0.7
28	100	9.0	0.5	28	100	9.0	0.7
29	100	6.0	0.7	29	100	11.0	0.5
30	100	8.0	1.0	30	100	7.0	0.6
31	100	6.0	1.8				
31	700	6.0	2.1				

JULY 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	9.0	0.6
2	100	8.0	0.5
3	100	9.0	0.5
4	100	8.0	0.4
5	100	9.0	0.5
6	100	6.0	0.6
7	100	7.0	0.9
8	100	8.0	0.7
9	100	8.0	0.8
10	100	7.0	0.6
11	100	10.0	0.4
12	100	9.0	0.4
13	100	9.0	0.3
14	100	12.0	0.3
15	100	7.0	0.3
16	100	9.0	0.4
17	100	10.0	0.4
18	100	9.0	0.5
19	100	8.0	0.5
20	100	17.0	0.5
21	100	17.0	0.5
22	100	14.0	0.6
23	100	7.0	0.7
24	100	12.0	0.5
25	100	14.0	0.3
26	100	14.0	0.3
27	100	14.0	0.4
28	100	9.0	0.4
29	100	4.0	0.8
30	100	5.0	0.8
31	100	6.0	0.6

AUGUST 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.0	0.5
2	100	10.0	0.5
3	100	10.0	0.3
4	100	8.0	0.3
5	100	14.0	0.3
6	100	9.0	0.3
7	100	9.0	0.3
8	100	9.0	0.3
9	100	9.0	0.3
10	100	7.0	0.3
11	100	5.0	0.4
12	100	8.0	0.4
13	100	8.0	0.5
14	1300	5.0	0.5
15	100	7.0	0.4
16	100	7.0	0.5
17	100	8.0	0.4
18	100	10.0	0.4
19	100	9.0	0.5
20	100	10.0	0.3
21	100	6.0	1.0
22	100	6.0	0.6
23	100	5.0	0.6
24	100	6.0	0.4
25	100	6.0	0.6
26	100	6.0	1.3
27	100	8.0	1.0
28	100	10.0	0.6
29	700	8.0	0.5
30	100	9.0	0.4
31	700	10.0	0.3

(Continued)

(Sheet 20 of 22)

Table El. (Continued)

SEPTEMBER 1984				OCTOBER 1984			
DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	8.0	0.3	1	100	10.0	1.7
2	100	17.0	0.4	2	100	10.0	1.3
3	700	17.0	0.3	3	100	9.0	0.9
4	100	14.0	0.4	4	100	11.0	0.4
5	100	5.0	0.8	5	100	11.0	0.4
6	100	6.0	0.9	6	100	10.0	0.5
7	100	6.0	1.2	7	100	6.0	1.5
8	100	9.0	1.0	8	100	5.0	0.9
9	100	6.0	1.4	9	100	9.0	0.7
10	100	7.0	1.2	10	100	10.0	0.9
11	100	8.0	1.1	11	100	12.0	1.6
12	100	7.0	0.8	11	1300	9.0	2.0
13	100	5.0	1.0	11	1900	9.0	2.2
14	100	6.0	0.8	12	100	10.0	2.3
15	100	7.0	1.3	12	700	9.0	2.3
16	100	6.0	1.6	12	1300	11.0	2.5
17	100	7.0	1.9	12	1900	12.0	2.7
18	100	8.0	1.7	13	100	12.0	2.9
19	100	10.0	1.3	13	700	12.0	3.2
20	700	9.0	1.0	13	1300	12.0	3.3
21	100	11.0	0.8	13	1900	14.0	3.3
22	100	9.0	0.7	14	100	14.0	3.2
23	100	9.0	0.8	14	700	14.0	3.0
24	100	12.0	0.6	14	1300	12.0	2.8
25	100	11.0	0.6	14	1900	12.0	2.5
26	100	10.0	0.5	15	100	12.0	2.7
27	100	6.0	1.9	15	700	12.0	2.1
27	700	7.0	2.0	15	1300	12.0	2.1
28	100	9.0	1.4	16	100	12.0	1.6
29	100	10.0	1.3	17	100	12.0	1.6
29	1900	7.0	2.5	17	1900	14.0	2.0
30	100	9.0	2.7	18	100	17.0	1.5
30	700	10.0	2.5	18	1300	14.0	2.1
30	1300	11.0	2.5	19	100	17.0	1.7
30	1900	10.0	2.2	20	100	14.0	1.1
				21	100	11.0	0.8
				22	100	10.0	0.4
				23	100	11.0	0.4
				24	100	9.0	0.4
				25	100	7.0	0.5
				26	100	11.0	0.9
				27	100	11.0	0.8
				28	100	10.0	0.6
				29	100	10.0	0.5
				30	100	10.0	0.6
				31	100	9.0	0.9

(Continued)

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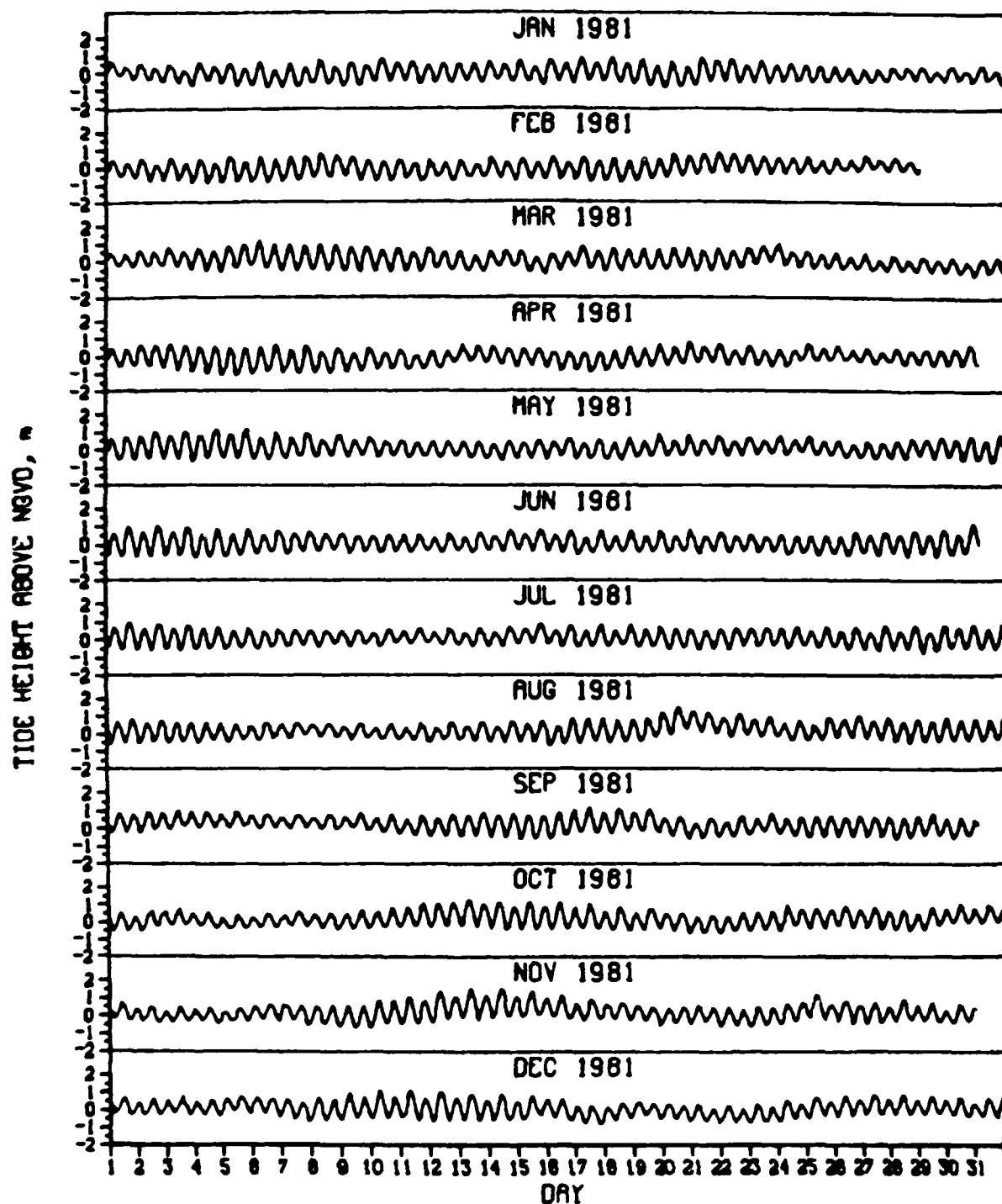
Table E1. (Concluded)

NOVEMBER 1984				DECEMBER 1984			
DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	4.0	1.3	1	100	11.0	0.5
2	100	7.0	1.1	2	100	10.0	0.3
3	100	6.0	2.2	3	100	5.0	0.8
3	700	7.0	2.1	4	100	7.0	0.4
3	1300	7.0	2.1	5	1300	6.0	1.5
4	100	8.0	1.8	6	100	9.0	2.2
5	100	10.0	1.5	7	100	6.0	1.0
6	700	10.0	1.0	8	100	5.0	0.6
7	100	6.0	1.5	9	100	6.0	0.3
8	100	6.0	1.2	10	100	10.0	0.3
9	100	10.0	1.4	11	100	9.0	0.5
10	100	10.0	0.9	12	100	5.0	0.8
11	100	10.0	1.0	13	100	9.0	0.5
12	1300	12.0	1.2	14	100	10.9	0.7
13	100	12.0	0.9	15	100	12.3	1.2
14	100	14.0	1.5	16	100	9.7	1.0
15	100	7.0	0.8	17	100	9.8	0.9
16	100	11.0	0.4	18	100	10.9	0.9
17	100	5.0	1.1	19	100	9.8	0.6
18	100	5.0	0.5	20	100	12.3	0.9
19	100	5.0	0.4	21	100	12.3	0.8
20	100	6.0	1.7	22	100	10.9	0.7
20	700	6.0	2.1	23	100	9.8	0.4
21	100	7.0	1.8	24	100	4.5	0.8
22	100	4.0	1.2	25	100	9.8	0.6
23	100	6.0	1.5	26	100	6.9	1.6
24	100	4.0	1.2	27	100	8.8	0.9
25	100	6.0	0.8	28	100	8.8	0.5
26	100	8.0	0.6	29	100	10.9	0.4
27	100	8.0	0.6	30	100	9.8	0.4
28	100	9.0	0.6	31	100	6.4	1.1
29	100	8.0	0.8				
30	100	11.0	0.7				

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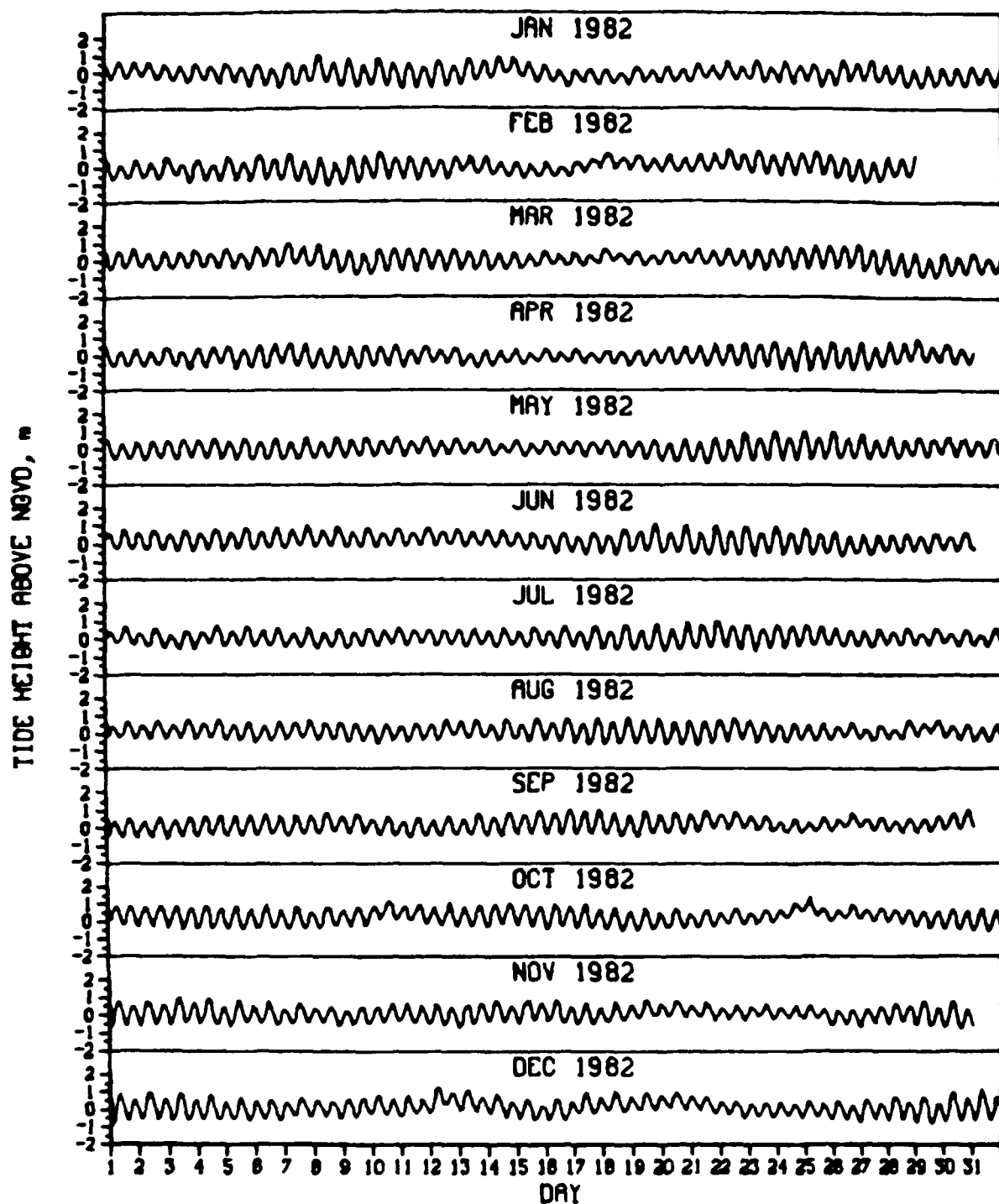
APPENDIX F: TIDE LEVELS AT PIER END, 1981-1984

This appendix contains plots of the observed tide levels at the end of the FRF pier. The data are collected by the National Oceanic and Atmospheric Administration/National Ocean Service (NOS) as part of their nationwide tide gaging program. Missing data have been interpolated by NOS. The tide gage, being located near the end of the pier, is occasionally within the surf zone. Thus, the tide data are influenced by setup, setdown, and storm surges, depending on the conditions at the time of the measurement.



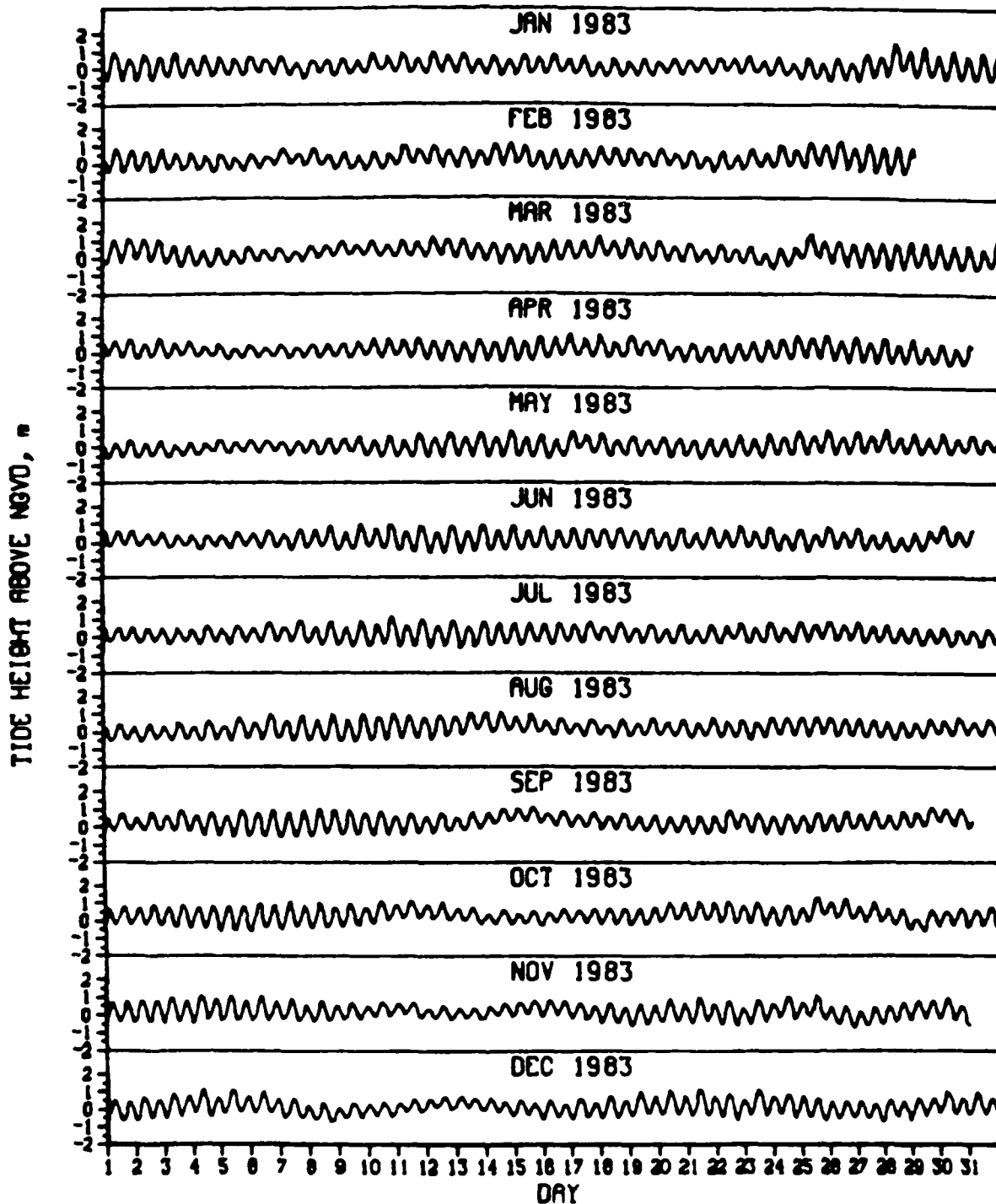
OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F1. Tide level record, 1981



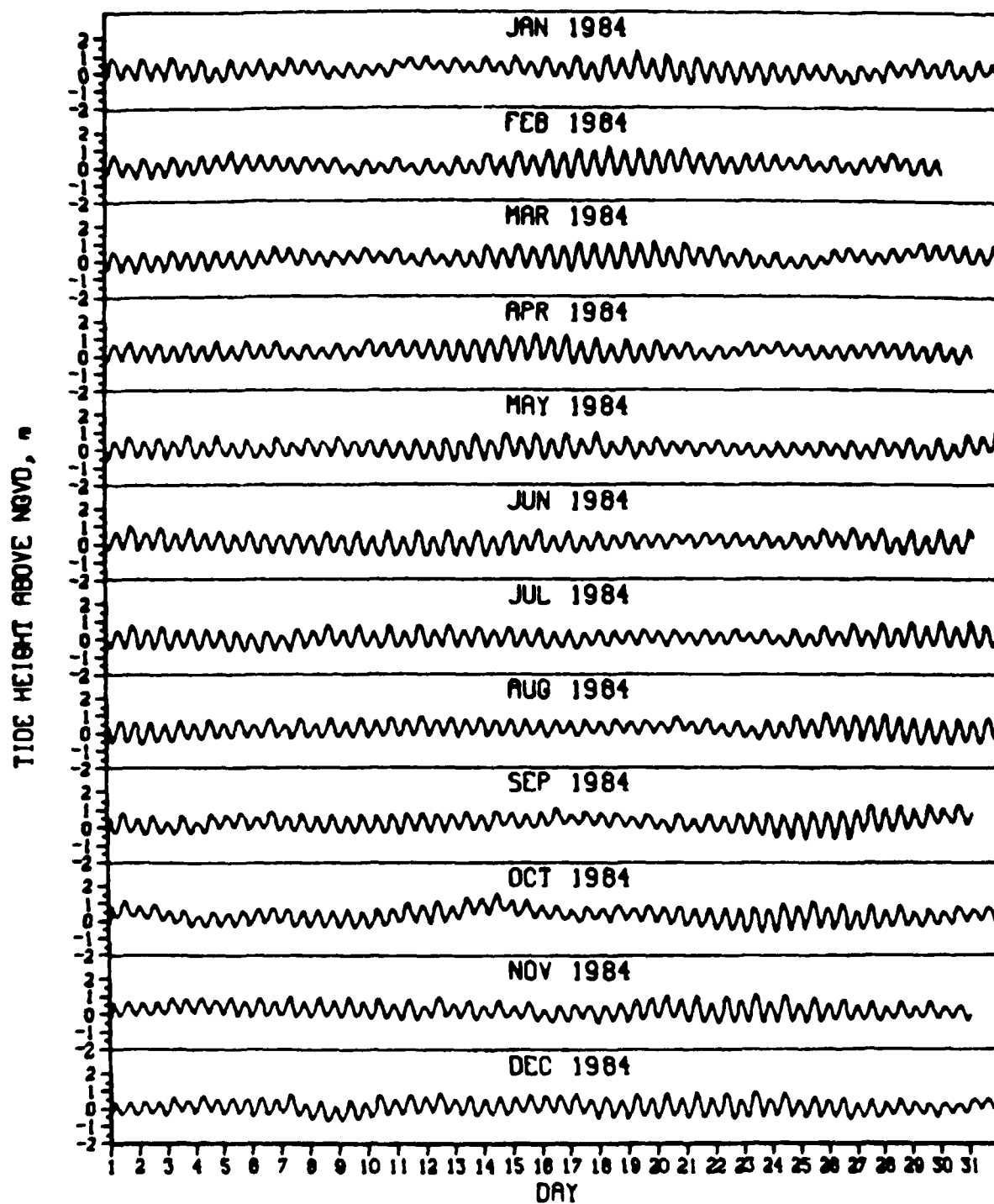
OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F2. Tide level record, 1982



OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F3. Tide level record, 1983



OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F4. Tide level record, 1984

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